# **EXHIBIT D**

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Page 1
            UNITED STATES DISTRICT COURT
     FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
                 CHARLESTON DIVISION
IN RE: ETHICON, INC., PELVIC )
REPAIR SYSTEM PRODUCTS ) Master File No. LIABILITY LITIGATION ) 2:12-\text{MD}-02327
THIS DOCUMENT RELATES TO THE ) MDL 2327
FOLLOWING CASES IN WAVE 1 OF ) JOSEPH R. GOODWIN
OF MDL 200:
                      ) U.S. DISTRICT JUDGE
HARRIET BEACH
                             ) CIVIL ACTION FILE
                           ) No. 2:12-CV-00476
ETHICON, INC., et al.
SHARON BOGGS, et al.
                             ) CIVIL ACTION FILE
                             ) No. 2:12-CV-00368
ETHICON, INC., et al.
JUDITH BRUHN, et al.
                             ) CIVIL ACTION FILE
                             ) No. 2:12-CV-00888
v.
ETHICON, INC., et al.
JANICE COLONNA
                             ) CIVIL ACTION FILE
                              ) No. 2:12-CV-01274
ETHICON, INC., et al.
MARY F. CONE
                             ) CIVIL ACTION FILE
                             ) No. 2:12-CV-00261
ETHICON, INC., et al.
v. )CIVIL ACTION FILE ) No. 2:12-CV-01283 ETHICON, INC., et al. )
   Videotaped Deposition of DUANE PRIDDY, PH.D.
               March 8, 2016
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Golkow Technologies, Inc. - 1.877.370.DEPS

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16 WILMA JOHNSON
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                                                                                               PRIDDY, PH.D., taken on behalf of the
17 v
                 ) No. 2:11-CV-00809
                                                                                      15
                                                                                               Defendants, pursuant to the stipulations
                                                                                      16
                                                                                               agreed to herein, before Maxyne Bursky,
18 ETHICON, INC., et al.
                                                                                      17
                                                                                               Registered Professional Reporter, at 111
19 IANET IONES
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                                                                                               Perimeter Center West, Atlanta, Georgia,
                 ) CIVIL ACTION FILE
                                                                                      19
                                                                                               on the 8th day of March, 2016, commencing
20 v
                 ) No. 2:12-CV-00762
                                                                                      20
                                                                                               at the hour of 9:59 a.m.
21 ETHICON, INC., et al.
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2 (Pages 2 to 5)

	Page 6		Page 8
1	APPEARANCES OF COUNSEL:	1	MS. FITZPATRICK: Fidelma
	On behalf of the Plaintiffs:	2	Fitzpatrick on behalf of the plaintiffs.
3	EDWARD A. WALLACE, Esq. TIMOTHY E. JACKSON, Esq.	3	THE VIDEOGRAPHER: The court
4	Wexler Wallace LLP		
5	55 West Monroe Street Suite 3300	4	reporter is Maxyne Bursky and will now
	Chicago, Illinois 60603	5	swear in the witness.
6	312.346.2222 312.346.0022 (facsimile)	6	DUANE PRIDDY,
7	eaw@wexlerwallace.com	'/	having been first duly sworn, testifies as follows:
8	tej@wexlerwallace.com	8	EXAMINATION
	FIDELMA L. FITZPATRICK, Esq.	9	BY MR. HUTCHINSON:
9	Motley Rice LLC 321 South Main Street	10	Q. Good morning, Dr. Priddy. How are you?
10	Providence, Rhode Island 02903	11	A. I'm doing well.
11	401.457.7728 401.457.7708 (facsimile)	12	Q. Good. My name is Chad Hutchinson. I'm
	ffitzpatrick@motleyrice.com	13	counsel for Ethicon and Johnson & Johnson. Do you
12 13	On behalf of the Defendants:	14	understand you are under oath?
14	CHAD R. HUTCHINSON, Esq.	15	A. I do.
15	Butler Snow, LLP Suite 1400	16	Q. Do you understand you are giving testimony
	1020 Highland Colony Parkway	17	subject to the penalty of perjury?
16	Post Office Box 6010 Ridgeland, Mississippi 39158-6010	18	A. Yes.
17	601.948.5711	19	Q. What is your specialty?
18	601.985.4500 (facsimile) chad.hutchinson@butlersnow.com	20	A. Polymer chemistry, materials science.
19		21	Q. Do you have any subspecialty?
20 21	Also Present: PHILIP KIMBALL, Videographer	22	A. No.
22	THEIR KINDALE, VIGCOGRAPHER	23	(Priddy Deposition Exhibit 1 was
23 24		24	marked for identification.)
	Page 7		Page 9
1	(The signature of the witness to the	1	BY MR. HUTCHINSON:
2	deposition was reserved.)	2	Q. I have handed you what we will mark as
3	THE VIDEOGRAPHER: We are now on the	3	Exhibit 1 to your deposition. Did you bring some
4	record. My name is Philip Kimball. I'm	4	documents responsive to that notice?
5	a videographer for Golkow Technologies.	5	(Witness reviewing document.)
6	Today's date is March 8, 2016, the time	6	A. I read through this and I believe the
7	is 9:59 a.m. This video deposition is	7	documents provided to you are responsive, yes.
8	being held in Atlanta, Georgia, in the	8	(Priddy Deposition Exhibit 2 was
9	matter of Harriet Beach versus Ethicon,	9	marked for identification.)
10	Incorporated, et al., Case Number	10	BY MR. HUTCHINSON:
11		11	Q. You have handed me a flash drive that
12		12	we'll mark as Exhibit 2.
13	$\mathcal{E}$	13	MR. HUTCHINSON: And, Counsel, I will
14	,	14	just retain, since this is my copy, we're
15		15	going to mark it Exhibit 2, but I'll just
16	¥	16	retain control over it; is that fair?
17	J - 1 - 1	17	MR. JACKSON: That's fine.
18	J	18	BY MR. HUTCHINSON:
19	,	19	Q. What is included on the flash drive that
20		20	your counsel handed me?
21	MR. JACKSON: Tim Jackson on behalf	21	A. A copy of my report, some documents that I
		22	have reviewed, my billing record, my time log in
エンフ	of the planting.		
22	*	22	this matter. That's all I recall offhand
22 23 24	MR. WALLACE: Ed Wallace on behalf	23 24	this matter. That's all I recall offhand.  Q. Does the flash drive contain all of the

3 (Pages 6 to 9)

	Page 10		Page 12
	Page 10		Page 12
1	documents that you reviewed and relied upon in	1	the mesh degrades with oxidation?
2	reaching your opinions?	2	MR. JACKSON: Objection, form.
3	A. I believe so.	3	A. I believe so.
4	Q. Have you reviewed this flash drive that	4	(Priddy Deposition Exhibit 3 was
5	your lawyer has handed me?	5	marked for identification.)
6	A. Yes.	6	BY MR. HUTCHINSON:
7	Q. Have you been deposed as an expert in the	7	Q. Doctor, I will hand you what we'll mark as
8	AMS litigation?	8	Exhibit 3 to your deposition. Do you recognize that
9 10	A. Yes.	10	as the report that you submitted in this case?  (Witness reviewing document)
11	<ul><li>Q. Was that the mesh litigation?</li><li>A. Yes.</li></ul>	11	(Witness reviewing document.) A. Yes.
12	Q. Were you an expert, a polymer science	12	Q. Is it complete and accurate?
13	expert in that litigation?	13	MR. JACKSON: Counsel, I just want
14	MR. JACKSON: Objection, form.	14	to note on the record that there are two
15	A. Yes.	15	emails at the end of this document which
16	BY MR. HUTCHINSON:	16	are not part of Dr. Priddy's report.
17	Q. How many times have you been deposed in	17	BY MR. HUTCHINSON:
18	the AMS litigation?	18	Q. Doctor, is that complete and accurate?
19	A. Once.	19	A. It looks, yes, it looks like I might have
20	Q. Have you read your testimony transcript?	20	to update my list of scientific articles and
21	A. No.	21	publications, but other than that, it's accurate.
22	Q. When were you first contacted in this	22	Q. Are you talking about you need to update
23	case?	23	your CV in there?
24	A. I'd say last September maybe.	24	A. Yes.
	Page 11		Page 13
1	Q. Of 2015?	1	Q. Otherwise, that report is complete and
2	A. Yes.	2	accurate; is that fair?
3	Q. Who contacted you?	3	A. Yes.
4	A. Mr. Wallace.	4	Q. Did anybody else work on that report other
5	Q. What did he ask you to do?	5	than you?
6	MR. JACKSON: Objection, form.	6	A. No.
7	A. Serve as an expert witness in the Ethicon	7	Q. How much time did you spend preparing that
8	mesh matter.	8	report?
9	BY MR. HUTCHINSON:	9	A. Maybe twelve hours. I'm not sure.
10	Q. Anything else specifically that he asked	10	Q. Would the time that you spent preparing
11	you to do?	11	that report be reflected on the flash drive that you
12	A. No.	12	handed me before the deposition?
13 14	Q. Have you ever had any contacts with Mr.	13 14	A. Probably not completely because normally I
15	Wallace before? A. Yes.	15	under-record the time I actually spend. I actually generally spend more than what I write down.
16	Q. In the AMS litigation?	16	Q. Why do you under-record your time?
17	A. Correct.	17	A. Just because I I just like to make sure
18	Q. Did you reach opinions similar in the AMS	18	that I'm not overcharging, so I tend to be
19	litigation as you have in this litigation?	19	conservative when I'm recording my time.
20	MR. JACKSON: Objection.	20	Q. Doctor, are all the opinions that you
21	A. I did not review my AMS testimony, so I	21	intend to offer in this case included in your expert
. –		22	report?
22	don't recail.		
22 23	don't recall. BY MR. HUTCHINSON:	23	•
			A. I may end up doing a supplemental report. Q. But as we sit here right now, are all the

4 (Pages 10 to 13)

Page 14 Page 16 opinions that you have so far included within your 1 polypropylene? expert report marked as Exhibit 3? 2 2 A. Not that I recall. 3 3 A. Yes. Q. Doctor, have you ever given any 4 Q. Do you have plans sitting here now to do a 4 presentations on mesh, Prolene, or polypropylene? 5 supplemental report? 5 6 A. Not specifically, but I may. 6 Q. Have you ever worked for a medical device 7 7 Q. Why are you considering doing a company before? 8 supplemental report? A. Yes. 8 9 A. While I was preparing for my deposition, 9 Q. Did your work focus on mesh or reading through everything, I just thought it might 10 10 polypropylene? be wise for me to do a supplemental report in the A. No. 11 11 12 12 Q. Other than the attorneys here, have you 13 Q. On what specific issue would you do a 13 ever discussed your opinions with anybody else? supplemental report on, sir? MR. JACKSON: Objection, form. 14 14 15 MR. JACKSON: Objection, form. 15 A. Are you talking about the opinions in this 16 A. I'm not sure at this point. Maybe my 16 report? review of the results in the 80s of Ethicon's 17 BY MR. HUTCHINSON: 17 research, some things caught my eye that I thought Q. Yes. 18 18 A. No. were important and I might generate some opinions 19 19 about those in the future. 20 20 Q. Is it fair to say you have never discussed 21 BY MR. HUTCHINSON: 21 your opinions with any type of scientist or medical 2.2 doctor or engineer; is that fair? 22 Q. But sitting here today, if you do a supplemental report, it is your plan to do a 23 23 A. That is correct. supplemental report only on the 1980 documents from 24 Q. Never communicated your opinions to FDA, Page 15 Page 17 Ethicon; is that fair? correct? 1 2 MR. JACKSON: Objection, form. 2 A. That's correct. 3 A. At this point, that's -- yeah. 3 Q. Or any scientific organization? 4 BY MR. HUTCHINSON: 4 MR. JACKSON: Objection, form. 5 5 Q. Your reliance list, Doctor, included in A. That's correct. 6 6 your expert report, is it complete and accurate? BY MR. HUTCHINSON: 7 7 A. I believe so, yes. Q. Doctor, how many hours did you spend 8 Q. Your CV that's included in your expert 8 reviewing the internal Ethicon documents? 9 9 report, is that the most recent version if you added A. I would say probably 14, 15 hours. 10 the publications that you referenced earlier? 10 Q. Did you sign a confidentiality agreement A. Yes. with respect to the documents you received from 11 11 Q. What publications would you need to add to Ethicon? 12 12 your CV to make it current? 13 13 A. Well, I mean, as part of my retainer 14 A. I published a paper -- well, it was just 14 agreement there's confidentiality in there that I'm accepted by the peer reviewers -- that I am going not going to share or publish or discuss. 15 15 to present at a conference here in May, and I'll O. I understand. Is that retainer agreement 16 16 included on Exhibit 2 which is the flash drive that 17 add that. 17 18 Q. What did you present about? 18 was handed to me before the deposition? A. It was understanding the science behind 19 19 A. I'm not sure. 20 the failure of exercise balls. 20 Q. Where is the retainer agreement? Q. Doctor, have you ever published anything 21 A. I would have a copy probably on my 21 regarding mesh or Prolene? 22 computer, or if not, a hard copy in my files. 22 23 23 Q. When is the last time you have seen the 24 24 retainer agreement? Q. Have you ever published anything regarding

5 (Pages 14 to 17)

	Page 18		Page 20
1	A. I don't recall.	1	MR. JACKSON: Objection, calls for a
2	Q. Any reason to believe that it's been lost	2	legal conclusion.
3	or destroyed?	3	A. Let's put it this way: I don't advertise
4	A. No.	4	myself as an expert for FDA.
5	Q. Other than your retainer agreement,	5	BY MR. HUTCHINSON:
6	though, did you sign any type of paper regarding a	6	Q. Is there anything on your CV that reflects
7	confidentiality agreement with respect to the	7	your expertise as a regulatory or FDA expert?
8	Ethicon documents you reviewed?	8	A. No.
9	A. I don't believe so.	9	Q. Doctor, you are not a pathologist?
10	Q. Do you advertise your services?	10	A. I am not a pathologist.
11	A. Yes.	11	Q. Not a medical doctor?
12	Q. On the internet?	12	A. I am not a medical doctor.
13	A. Yes.	13	Q. Not a toxicologist?
14	Q. Anywhere else?	14	A. No.
15	A. Yes.	15	Q. Not a biostatistician?
16	Q. Where?	16	A. What?
17	A. I'm listed as an expert on three or four	17	Q. A biostatistician?
18	different websites, I believe, that aren't mine.	18	A. A biostatistician, I do a lot of
19	Q. Other than the internet, do you advertise	19	statistical analysis, but bio, not a
20	your services anywhere?	20	biostatistician.
21	A. No.	21	Q. Are you an epidemiologist?
22	Q. Your billing rate is \$375 an hour for	22	A. No, I'm not.
23	record review and 550 for testimony?	23	Q. Are you an expert in biomaterials?
24	A. Correct.	24	MR. JACKSON: Objection, form.
	Page 19		Page 21
1	Q. You don't consider yourself an FDA expert,	1	A. I have done a lot of work with different
2	do you?	2	biomaterials. Again, it's difficult to quantify
3	MR. JACKSON: Objection, form.	3	expert or non-expert, but I have experience working
4	A. I mean, I have done a lot of interaction	4	with biomaterials.
5	with the FDA when I was at Dow, I did a lot of	5	BY MR. HUTCHINSON:
6	extraction studies and those kind of things to help	6	Q. So it is difficult for you to quantify
7	fill out paperwork for FDA applications.	7	whether or not you are an expert in biomaterials?
8	BY MR. HUTCHINSON:	8	Did I understand your testimony correctly?
9	Q. Do you consider yourself a regulatory	9	MR. JACKSON: Objection, form.
10	expert?	10	A. It's a non-quantifiable question, in my
11	MR. JACKSON: Objection, form.	11	thinking.
12	A. Again, I have done a lot of interaction	12	BY MR. HUTCHINSON:
13	with government regulatory agencies.	13	Q. Do you consider yourself an expert, sir,
14	BY MR. HUTCHINSON:	14	in biomaterials?
15	Q. I understand that, but do you hold	15	MR. JACKSON: Objection, asked and
16	yourself out as an expert, sir?	16	answered.
17	MR. JACKSON: Objection to form.	17	A. All I can say is I know a lot about
18	A. With regard to FDA?	18	biomaterials.
19	BY MR. HUTCHINSON:	19	BY MR. HUTCHINSON:
20	Q. Yes.	20	Q. Do you consider yourself an expert, is my
21	A. I know a lot about it. That's all I can	21 22	question?  MR. IACKSON: Objection to form
22 23	Say.	23	MR. JACKSON: Objection to form.
24	Q. I understand, but my question is: Do you consider yourself a regulatory or FDA expert?	24	A. I'm an expert in materials. BY MR. HUTCHINSON:
4	constact yourself a regulatory of FDA expert!	4	DI MIN. HUTCHINSON.

6 (Pages 18 to 21)

Page 22 Page 24 ASTM D3895 and ASTM 1980, correct? 1 Q. What about biomaterials? 1 A. And biomaterials are included in 2 2 MR. JACKSON: Object to the form. 3 3 materials. A. 1980, no, I did the ASTM D3895. 4 4 Q. Are you an expert in biocompatibility? BY MR. HUTCHINSON: 5 A. Again, I know a lot about 5 Q. Did you follow the protocols from the ASTM 6 biocompatibility. It's just difficult for me to 6 1980? 7 7 give a yes-no answer to that when I know a lot about A. I would say no. The 1980 is specific to 8 packaging for medical devices, and so I didn't, 8 it, but, yeah. 9 Q. Doctor, are you an expert in the 9 since this was not packaging for a medical device, I biological response to foreign bodies? did not follow that. 10 10 11 MR. JACKSON: Objection, form. 11 Q. Doctor, your expert report, Page 3, states that you followed the Q10 protocol as described in 12 A. Again, I know a lot about it but I'm 12 not a pathologist, so. ASTM F1980, correct? 13 13 14 A. Correct. 14 BY MR. HUTCHINSON: 15 Q. Do you consider yourself an expert in the 15 Q. What was the Q10 protocol that you biological response to foreign bodies? 16 followed? 16 17 MR. JACKSON: Objection, form. 17 A. That protocol is basically a mathematical A. I'll just say I know a lot about it. protocol where you operate under the assumption, and 18 18 it is an assumption, that the oxidation rate or 19 BY MR. HUTCHINSON: 19 20 reaction rate doubles the kinetics of the oxidation 20 Q. You won't answer that question? A. I just did. 21 reaction, doubles every 10 degrees Centigrade 21 increase in temperature. So that protocol is used 22 MR. JACKSON: He just gave the 22 23 answer. 23 to extrapolate from the elevated temperature to make predictions, and I emphasize the word predictions, 24 A. It's not a simple yes-no answer. Page 23 Page 25 BY MR. HUTCHINSON: because that's all it is, of what would happen at 1 2 Q. Do you consider yourself an expert in the 2 the lower temperatures. So that's what's referred 3 design of surgical mesh? 3 to by the Q10 protocol. 4 MR. JACKSON: Objection, form. 4 Q. Is the Q10 protocol defined in the ASTM 5 5 A. As far as the design includes materials 1980 protocol? 6 MR. JACKSON: Objection, form. 6 selection for it, yes. 7 7 BY MR. HUTCHINSON: A. Yes. 8 Q. Do you consider yourself an expert in 8 BY MR. HUTCHINSON: 9 9 female anatomy? Q. Is that what you followed? 10 10 MR. JACKSON: Objection, form. A. No. A. I followed the Q10 protocol regarding the 11 Q. Doctor, let's talk about the testing you 11 did. You did some accelerated aging testing; is doubling of reaction rate every 10 degrees. That 12 12 methodology for calculation is what I followed. 13 that correct? 13 14 MR. JACKSON: Objection, form. 14 BY MR. HUTCHINSON: 15 A. The testing I did was called oxidation Q. Did you follow anything else from ASTM 15 induction time testing. It is an accelerated test, 16 16 1980? 17 yes. 17 MR. JACKSON: Objection, form. 18 BY MR. HUTCHINSON: 18 A. No. 19 Q. And at what temperature did you do it? 19 BY MR. HUTCHINSON: 20 A. 200 degrees Centigrade. 20 Q. Are you giving any life expectancy 21 Q. Why did you choose that number? 21 opinions regarding Prolene? A. Because it's the recommended temperature 22 MR. JACKSON: Objection, form. 22 in the ASTM D3895 OIT testing standard. 23 23 A. No, other than just general, not specific. Q. And you followed the protocols from the 24 BY MR. HUTCHINSON: 24

7 (Pages 22 to 25)

	Page 26		Page 28
1	Q. Are your general life expectancy opinions	1	Q. Doctor, on Page 2 of your expert report,
2	regarding Prolene included in your expert report?	2	you did what is called oxidative induction time
3	A. My expert opinion is that its life	3	testing; is that correct?
4	expectancy is not indefinite, that it degrades so	4	A. Correct.
5	it's not going to last forever.	5	Q. You generated some I'm going to call
6	Q. But you are not giving any specific life	6	that, by the way, OIT for short. Are you and I on
7	expectancy opinions, are you, sir?	7	the same page?
8	MR. JACKSON: Objection, form.	8	A. Absolutely.
9	A. No.	9	Q. You generated some OIT values contained in
10	(Priddy Deposition Exhibit 4 was	10	your report; is that right?
11	marked for identification.)	11	A. That is correct.
12	BY MR. HUTCHINSON:	12	Q. And you used OIT to compare the oxidative
13	Q. I hand you what we'll mark as Exhibit 4 to	13	stability of 10 different Ethicon mesh samples?
14	your deposition.	14	A. That's correct.
15	(Witness reviewing document.)	15	Q. Who conducted the tests?
16	Q. This is the ASTM that you followed,	16	A. A technician at Materials Engineering,
17	correct?	17	Inc. located in Virgil, Illinois. They are an A2LA
18	A. Yes.	18	certified laboratory.
19	Q. Is this the version that you followed?	19	Q. How far away is that from your office?
20	A. I'm not sure if it's the dash 14 version	20	A. About 180 miles probably.
21	or not. I would think it probably is not the dash	21	Q. Do you know the names of the person who
22	14 version. It's probably an earlier version,	22	did the testing?
23	because I have been doing OIT for many years, much		A. Yes.
24	earlier than 2014.	24	Q. What were their names?
	Page 27		Page 29
1	Q. But 2014 or 14, rather, stands for	1	A. Steve Johnson is the technician that runs
2	the year, correct?	2	that test.
3	A. Correct.	3	Q. Were you present when Steve Johnson did
4	Q. You used an older version of the ASTM	4	any of the tests?
5	3895?	5	A. No.
6	MR. JACKSON: Objection, form.	6	Q. Did you direct the work of Steve Johnson
7	A. Yes.	7	in any way?
8	BY MR. HUTCHINSON:	8	MR. JACKSON: Objection, form.
9	Q. Why?	9	A. To the extent of how I wanted the mesh
10	A. Because I have been doing it for many	10	samples analyzed, yes.
11	years preceding '14, and once I get the lab set up	11	BY MR. HUTCHINSON:
12	doing a specific test, following a specific standard	12	Q. Did you provide any written correspondence
13	in a specific way, I just don't deviate it.	13	to Steve Johnson on how to do the tests?
14	Q. Sir, did you ever compare the version, the	14	A. No.
15	older version that you used of 3895 to the most	15	Q. Do you know how long Steve Johnson took to
16	recent ASTM 3895 2014?	16	do the tests?
17	A. No.	17	MR. JACKSON: Objection, form.
18	Q. Are you aware of any changes between those	18	A. About a week.
19 20	two ASTM protocols?	19 20	BY MR. HUTCHINSON: O Fight hours a day?
21	A. I would have to study it in depth to look for those differences.	21	<ul><li>Q. Eight hours a day?</li><li>A. I wasn't there to watch him. I don't</li></ul>
22	Q. But you can't tell us those differences	22	know.
23	now?	23	Q. Do you know how much specific time Steve
24	A. No.	24	Johnson did in doing the tests?
	. = . = .	_	

8 (Pages 26 to 29)

	Page 30		Page 32
1	A. No.	1	handled the mesh, correct?
2	Q. Has Steve Johnson sent you a bill for	2	A. That is correct.
3	doing those tests?	3	Q. Have you ever asked for any chain of
4	A. I have a credit card on file with him and	4	custody documents from Steve Johnson?
5	when he's done, he just charges my card.	5	A. I just talked to him to make sure that he
6	Q. Has he charged your card yet?	6	received them. He said yes, I have. But I confirmed
7	A. I have to check. I don't recall offhand.	7	his receipt of the meshes that I sent to him.
8	Q. Do you have any idea how much money Steve	8	Q. But you have no chain of custody documents
9	Johnson is going to charge you to do the tests that	9	showing what Steve Johnson did with the mesh,
10	are outlined in your expert report?	10	correct?
11	A. Well, I know that he charges me about \$200	11	MR. JACKSON: Objection, form.
12	to run an OIT test and since he ran these ten tests,	12	A. I know he received them and analyzed them
13	I can do the math.	13	and he still has them.
14	Q. Doctor, do you know if Steve Johnson had	14	BY MR. HUTCHINSON:
15	any help doing the tests?	15	Q. How did you ship the samples to Steve
16	A. He has another technician that works with	16	Johnson?
17	him.	17	A. UPS.
18	Q. What's that technician's name?	18	Q. Where did you get the samples to ship to
19	A. It was a new hire. I don't even recall,	19	Steve Johnson?
20	Mark somebody.	20	A. From Fidelma, an attorney.
21	Q. Do you know how this new hire has been	21	Q. When did you receive them?
22	trained?	22	A. I'd have to look at the chain of custody
23	A. I don't.	23	documents. I believe it was mid-December.
24	Q. Have you ever met this new hire?	24	Q. What products did you receive?
21		21	
	Page 31		Page 33
1	A. No.	1	A. I received six different TVTs and four
2	Q. Do you know how much time this new hire		
2		2	different Gynemeshes.
3	named Mark spent on this test?	3	Q. Would you describe the Gynemeshes that you
4	named Mark spent on this test? MR. JACKSON: Objection, form.	3 4	Q. Would you describe the Gynemeshes that you received?
4 5	named Mark spent on this test?  MR. JACKSON: Objection, form.  A. I don't think he has done anything on the	3 4 5	<ul><li>Q. Would you describe the Gynemeshes that you received?</li><li>A. Describe them?</li></ul>
4 5 6	named Mark spent on this test?  MR. JACKSON: Objection, form.  A. I don't think he has done anything on the test. I think Steve Johnson did it all.	3 4 5 6	<ul><li>Q. Would you describe the Gynemeshes that you received?</li><li>A. Describe them?</li><li>Q. Yes, sir.</li></ul>
4 5 6 7	named Mark spent on this test? MR. JACKSON: Objection, form. A. I don't think he has done anything on the test. I think Steve Johnson did it all. BY MR. HUTCHINSON:	3 4 5 6 7	<ul> <li>Q. Would you describe the Gynemeshes that you received?</li> <li>A. Describe them?</li> <li>Q. Yes, sir.</li> <li>MR. JACKSON: Objection, form.</li> </ul>
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	named Mark spent on this test?  MR. JACKSON: Objection, form.  A. I don't think he has done anything on the test. I think Steve Johnson did it all. BY MR. HUTCHINSON:  Q. And Steve Johnson did this DSC test, correct?  A. That's correct.  Q. Differential scanning calorimetry?  A. That's correct.  Q. He used some samples of Ethicon's mesh, right?  A. That's correct.  Q. Did you give the samples to Steve Johnson?  A. I sent them to him.  Q. Is that reflected in the chain of custody documents?  A. It is.  Q. Have you ever received any chain of custody documents from Steve Johnson?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Would you describe the Gynemeshes that you received?  A. Describe them? Q. Yes, sir. MR. JACKSON: Objection, form. BY MR. HUTCHINSON: Q. Describe them for the jury. What did they look like? A. It's just a strip of polypropylene mesh between, I assume, some stainless steel rods. Q. How else would you describe the Gynemesh that you received? MR. JACKSON: Objection, form. A. That's about all I can say about it. BY MR. HUTCHINSON: Q. How was the Gynemesh that you received with the two stainless rods different from the six TVTs that you received? MR. JACKSON: Objection, form. A. They both had mesh between metal rods and

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Page 36 Page 34 BY MR. HUTCHINSON: 1 A. Because it wasn't relevant to my opinion. 1 Q. Doctor, was this test sample compressed or 2 Q. So all products that you received had mesh 2 3 between two stainless steel rods; is that correct? 3 molded into a sheet format? 4 4 A. That's my recollection, yes. A. No. 5 Q. Doctor, let's talk about the sampling that 5 Q. Why not? б was used for the DSC. DSC is a test, by the way, 6 A. Because that would have given the sample 7 7 right? another heat history, and I wanted to have the A. Yes. 8 samples tested in their original use shape as 8 9 Q. That's an analytical test? 9 monofilaments. Q. How many times was the DSC test run? A. It's a piece of equipment. 10 10 MR. JACKSON: Objection, form. 11 Q. And the purpose of the equipment is in 11 essence to melt the product inside, fair enough? A. It's run once, and I had him run it in 12 12 MR. JACKSON: Objection, form. 13 pure oxygen, switching from nitrogen to oxygen, and 13 I also asked him to run it switching from nitrogen 14 A. No. 14 15 BY MR. HUTCHINSON: to air, so he ran it twice for each sample. Q. What's the purpose of the equipment? 16 16 BY MR. HUTCHINSON: 17 A. It's to detect thermal heat flow, whether 17 Q. Do you know how long he ran it in pure 18 it be cooling or heating with plastic materials. 18 nitrogen? Q. But you do that by melting the plastic 19 19 A. You run it for so many minutes until the material, correct? equipment is stable, get a smooth baseline. That's 20 20 21 MR. JACKSON: Objection, form. 21 generally five minutes or so at 200. 22 Q. But my question is, do you know how long 22 A. Not necessarily. Steve Johnson ran it in pure nitrogen? 23 BY MR. HUTCHINSON: 23 Q. Did you melt the samples that you received 24 A. Whatever the standard dictates, and I 24 Page 37 Page 35 in this case? believe it's five minutes. 1 2 A. At 200 degrees, that's above the melting 2 Q. Do you know how long Steve Johnson ran the 3 point so they would be melted, yes. 3 sample or ran the test, rather, in pure oxygen? 4 Q. How did you make the specimen sample? 4 MR. JACKSON: Objection, asked and 5 A. It was cut with scissors. 5 answered. 6 6 Q. In your lab or in Steve Johnson's lab? A. It's in the data. Once you switch from 7 7 nitrogen to oxygen, that's time 0, and then you run A. Steve Johnson did the cutting. 8 8 Q. Were you supervising the cutting of the it in pure oxygen until the exotherm is over and samples with Steve Johnson? 9 that gives you your OIT data. 9 10 A. I was not present, but we discussed the 10 BY MR. HUTCHINSON: protocol of how to collect the samples. 11 11 Q. Let's look at Exhibit 4 and turn with me Q. What was the average sheet thickness of 12 12 to Page 2. 13 the sample? 13 A. Okay. 14 MR. JACKSON: Objection, form. 14 Q. Under "9. sampling." Do you see that? 15 A. I don't recall. 15 A. Yes. 16 Q. 9.1 says, "The following sample 16 BY MR. HUTCHINSON: preparation procedures are recommended: the test 17 Q. Did you ever ask Steve Johnson about what 17 18 the average sheet thickness was of the sample? 18 sample is compression molded into sheet format." 19 19 A. I asked him what the thickness was. Did I read that correctly? 20 Q. What did he tell you? 20 A. Absolutely. 21 A. I don't recall. It was less than -- I 21 Q. Why did you not follow that protocol? 22 MR. JACKSON: Objection, form. 22 don't recall. 23 A. Because it's recommended and, as I said 23 Q. Why is that not included in your expert 24 previously, that would require another heat history 24 report?

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Page 38 Page 40 on the sample, and I wanted to look at pristine mesh numbers data gave a correlation with the level of samples in their use state. And I didn't want to 2 2 antioxidant in the mesh samples. And the reason I 3 3 alter that. did that is just to confirm that there's a 4 4 statistical correlation between the level of So that would have affected the results to 5 have done it that way. And I emphasize the word 5 antioxidant and the OIT values because if there 6 "recommended," because you don't have to do it that 6 hadn't have been, then I would have been concerned 7 7 way, it's just the recommended. about the validity of the results. 8 Q. I understand, but fair to say that you Q. Doctor, let's look at Exhibit 4 for a 8 9 didn't follow the recommended sampling procedure in 9 minute. This is that ASTM 3895. ASTM 3895, correct? 10 10 A. Yes. 11 MR. JACKSON: Objection, form. 11 Q. Bottom of Page 1, 4.3 states, "Unless A. Absolutely for good reason, it would have otherwise specified, the analysis temperature used 12 12 affected the results negatively. in this test has been arbitrarily set at 200 degrees 13 13 BY MR. HUTCHINSON: C." 14 14 Q. Doctor, there is nothing in your expert 15 15 Do you see that? 16 report about how the samples were prepared, is 16 A. Yes. there? 17 Q. That's the temperature you used? 17 18 A. Not in the report directly, no. 18 A. Correct. Q. Why did you not include that in your Q. You used an arbitrary number? 19 19 expert report? 20 MR. JACKSON: Objection, form. 20 21 A. Because it has no bearing on my opinions. 21 A. I used the number specified in the Q. Doctor, did you do any type of statistical standard, yes. 22 22 calculations to confirm that the results you got 23 BY MR. HUTCHINSON: from this test that Steve Johnson did were 24 Q. And the number specified in the standard Page 39 Page 41 statistically significant? is an arbitrary number, correct? 1 2 MR. JACKSON: Objection, form. 2 MR. JACKSON: Objection, form. 3 A. What I did do --3 A. It is the number that I run. Every time I 4 BY MR. HUTCHINSON: do an OIT test I do it at 200 degrees. That's just 5 5 Q. We are going to get to what you did do in always the way I run it. a minute. I want to know the answer to my question 6 BY MR. HUTCHINSON: 6 7 first and then we'll get there. 7 Q. I understand that, but the number that you MR. JACKSON: Counsel, you have to 8 8 used is an arbitrary number according to the ASTM let him answer the question. 9 9 standard, correct? 10 BY MR. HUTCHINSON: 10 MR. JACKSON: Objection, form. A. If they -- they define it as an arbitrary 11 Q. Did you do any type of statistical 11 calculations to --12 12 number, so. 13 A. Yes. 13 BY MR. HUTCHINSON: 14 Q. Are those statistical calculations 14 Q. Doctor, would you ever attempt to publish included in your expert report? a paper in a peer-reviewed journal using arbitrary 15 15 A. No. data? 16 16 MR. JACKSON: Objection, form. 17 Q. Why not? 17 18 A. Just didn't include it. 18 A. I certainly would attempt to publish an 19 Q. Any reason? 19 article in a paper based upon following an ASTM 20 A. No. 20 standard. 21 21 BY MR. HUTCHINSON: Q. What type of statistical calculations did 22 Q. Would you ever attempt to publish anything 22 you do? in a peer-reviewed journal with an arbitrary number? 23 A. I had Steve Johnson extract the additives 23 from the mesh samples and to determine if the OIT 24 MR. JACKSON: Objection, form.

11 (Pages 38 to 41)

Page 44 Page 42 1 A. If it is specified in the standard, yes. testing. If there's a red flag there, it will just 2 BY MR. HUTCHINSON: 2 give you a red flag. And so with that 3 Q. Doctor, your report states that the mesh 3 understanding, as I say, I routinely use this test for doing lifetime predictions. sample was heated to 200 degrees under pure 4 5 nitrogen; is that right? 5 Q. I understand, but with that understanding, 6 A. Yes. 6 a qualitative test does not give you lifetime 7 7 Q. That's the temperature at which you predictions, does it? 8 conducted this aging study? MR. JACKSON: Objection, form. 8 9 MR. JACKSON: Objection, form. 9 A. Yeah, It gives you predictions, certainly. 10 BY MR. HUTCHINSON: A. Correct. 10 11 BY MR. HUTCHINSON: 11 Q. It doesn't give you lifetime facts or lifetime specifics, does it? 12 Q. That's also known as the accelerated aging 12 temperature, correct? 13 MR. JACKSON: Objection, form. 13 14 A. Every time you use an accelerated test 14 A. Yes. protocol to get a prediction, it's only a prediction 15 Q. That equates to roughly 392 degrees 15 Fahrenheit? 16 and you have to follow it up with real life, live 16 17 A. Correct. 17 tests to validate. 18 Q. That's about 300 degrees Fahrenheit above 18 BY MR. HUTCHINSON: the normal temperature of a human being; is that 19 19 Q. And you have to follow it up with real 20 time aging tests, correct? 20 correct? 21 21 MR. JACKSON: Objection, form. A. Correct. 2.2 22 Q. And it is well above the melting point of A. That is correct. 23 Prolene, isn't it? 23 BY MR. HUTCHINSON: 24 24 MR. JACKSON: Objection, form. Q. Doctor, you wouldn't rely on a qualitative Page 45 Page 43 1 A. Yes, it is. test to determine how long a polymer would retain 2 BY MR. HUTCHINSON: its physical properties, would you? 3 Q. What is the melting point of Prolene? 3 MR. JACKSON: Objection, form. 4 A. 165 degrees Centigrade approximately. 4 A. I would use it for predictive purposes, 5 Q. Doctor, moving to Page 2, at the top under 5 yes. Significance and Use, are you there with me? 6 6 BY MR. HUTCHINSON: 7 7 A. Yes. Q. Doctor, let's move on to the top of Page Q. It says, "The OIT is a qualitative 2. Under Note 2 it states, "The OIT measurement is 8 8 9 an accelerated thermal-aging test and as such can be 9 assessment of the level (or degree) of stabilization 10 of the material tested." 10 misleading." Do you see that? 11 Did I read that correctly? 11 12 A. Yes. 12 A. Yes. Q. And a qualitative test is different from a 13 13 Q. What does misleading mean? quantitative test, isn't it, sir? 14 MR. JACKSON: Objection, form. 14 15 A. That's correct. A. What they are trying to say there is, if I 15 have different materials, say two different 16 Q. A qualitative test doesn't give you a 16 polypropylenes with two different stabilizer lifetime prediction, does it? 17 17 18 MR. JACKSON: Objection, form. 18 packages, one polypropylene has additive stabilizer BY MR. HUTCHINSON: antioxidant A in it and another one has antioxidant 19 19 20 O. Doctor? 20 stabilizer package B in it and I run an OIT and I 21 21 get different values, that it would be misleading A. It's standard practice to use data from these kind of tests to do lifetime predictions, 22 for me to say that one is better than the other. 22 realizing it's only a prediction. With that 23 BY MR. HUTCHINSON: understanding that it has to be validated by actual 24 Q. Did you consider this statement before

12 (Pages 42 to 45)

Page 46 Page 48 level of volatility. 1 doing your testing? 1 2 MR. JACKSON: Objection, form. 2 If it comes through in less than 10 3 A. Yes. 3 minutes, it is volatile. If it takes 20 minutes to 4 4 come off the GC column, you know that at BY MR. HUTCHINSON: 5 5 200 degrees, it is not volatile. And I did the same Q. Doctor, one would never expect to use б Prolene in the body at 200 degrees C, would they? 6 thing for Santonox R. 7 7 A. That's correct. Q. Doctor, did you account for the volatility 8 8 of any other additives contained in Prolene? Q. In fact, you would never expect Prolene to 9 be exposed to a hundred percent nitrogen in vivo, 9 A. No, I was focused on the antioxidant species. 10 would you? 10 11 A. No. 11 Q. Did you focus any on Procol LA-10? 12 Q. You'd never expect Prolene to be exposed 12 to a hundred percent oxygen in vivo, would you? 13 Q. Did you ever focus on calcium stearate? 13 MR. JACKSON: Objection, form. 14 A. No. Those are lubricants, not 14 15 A. Not pure oxygen. I certainly would expect 15 antioxidants. it to be exposed to oxidizing species, but not a 16 Q. Doctor, the intended use temperature of 16 hundred percent pure oxygen, no. 17 the finished product, what is the intended use 17 temperature of the finished product? 18 BY MR. HUTCHINSON: 18 Q. Moving on down on Note 2, last sentence it MR. JACKSON: Objection, form. 19 19 says, "Volatile antioxidants may generate poor OIT 20 A. 37 degrees C or 98.6 Fahrenheit. 20 21 results even though they may perform adequately at 21 BY MR. HUTCHINSON: the intended use temperature of the finished 22 22 Q. It is not 200 degrees C, is it? 23 product." 23 A. No. 24 24 Did I read that correctly? Q. Doctor, moving on down to Note 3, "There Page 47 Page 49 1 A. Yes. is no accepted sampling procedure, nor have any 2 Q. Did you consider that before you did your definitive relationships been established for 3 testing, Doctor? 3 comparing OIT values on field samples to those on 4 A. Yes. 4 unused products. Hence, the use of such values for 5 Q. Do you know whether there is a volatile 5 determining life expectancy is uncertain and antioxidant in Prolene? 6 6 subjective." 7 7 A. The Santonox R and the dilauryl Did I read that correctly? 8 thiodipropionate, both of those additives are not 8 A. Absolutely, yes. 9 9 volatile. At 200 degrees they would not vaporize Q. Doctor, what would the field sample be in this particular case? 10 from the Prolene. 10 11 A. The Prolene mesh. 11 Q. What do you base that on, Doctor? 12 A. Just my polymer chemistry and experience 12 Q. It would be an explant, correct? working with these types of antioxidants. 13 MR. JACKSON: Objection, form. 13 14 Q. Did you account for the volatility of 14 A. No, it's a virgin, unused implant. DLTDP before you did your testing? BY MR. HUTCHINSON: 15 15 A. Yes. Q. That's what you consider to be a field 16 16 17 Q. How? 17 sample? 18 A. I actually asked the technician to inject 18 A. Yes. a sample of pure dilauryl thiodipropionate -- this 19 Q. What's the difference between a virgin, 19 is Steve Johnson -- into the gas chromatograph to 20 unused piece of Prolene and an unused product? determine its relative volatility. In other words, 21 MR. JACKSON: Objection, form. you do that by retention time, how long does it take 22 A. There is no difference. 22 23 this chemical to -- before it makes its way through 23 BY MR. HUTCHINSON: 24 the gas chromatograph, and you get a feel for its 24 Q. Doctor, the ASTM that you quote says

13 (Pages 46 to 49)

	Page 50		Page 52
1	there have been no definitive relationships	1	Q. Doctor, would you ever publish anything in
2	established for comparing values on field samples to	2	the "American Chemical Society" journal that was
3	those for unused products.	3	uncertain and subjective?
4	MR. JACKSON: Objection, misstates	4	MR. JACKSON: Objection, form.
5	witness testimony.	5	A. Yes, I would.
6	BY MR. HUTCHINSON:	6	BY MR. HUTCHINSON:
7	Q. That's what the ASTM says, correct?	7	Q. Doctor, moving on down to Note 7, it
8	A. Okay.	8	states, "The material composition of the specimen
9	Q. And in fact, Doctor, there's been no	9	holder can influence the OIT test result
10	definitive relationships established for comparing	10	significantly."
11	the OIT values of explant to mesh that's never been	11	Do you see that?
12	used in surgery; is that fair?	12	A. I'm sorry, where are you at?
13	A. That is fair, yes.	13	Q. At the bottom of Page 2, note 7.
14	Q. In fact, Doctor, can you stand by your	14	A. Reagents and Materials?
15	opinions to a reasonable degree of scientific	15	Q. No, bottom of Page 2. It says, "The
16	certainty, given that the ASTM that you used says	16	material composition of the specimen holder."
17	"determining life expectancy is uncertain and	17	Do you see that?
18	subjective"?	18	A. I'm sorry, I'm still not with you.
19	MR. JACKSON: Objection, form.	19	Could you point to where you?
20	A. I'm sorry, I don't understand that	20	Q. I'll be happy to.
21	question. Would you repeat it, please?	21	A. Okay, thank you. Okay.
22	BY MR. HUTCHINSON:	22	Q. Do you see that, Doctor?
23	Q. Can you stand by your opinions, given that	23	A. Yes.
24	the ASTM that you used says "determining life	24	Q. What type of specimen holder was used by
	Page 51		Page 53
1	expectancy is uncertain and subjective"?	1	Steve Johnson?
2	MR. JACKSON: Objection, form.	2	A. It's called a DSC pan.
3	A. What I can say is this, the life	3	Q. What is the DSC pan that Steve Johnson
4	expectancy is uncertain, that's correct.	4	used made out of?
5	BY MR. HUTCHINSON:	5	A. He told me. It's in the report and I
6	Q. And the life expectancy is also	6	don't recall offhand.
7	subjective, isn't it, sir?	7	Q. It is in your expert report?
8	MR. JACKSON: Objection, form.	8	A. No, it's in his report to me.
9	A. All I can say is in a nutshell, this data	9	Q. Steve Johnson prepared a report and gave
10	shows that the Prolene material will not last	10	it to you?
11	indefinitely in the body. It is susceptible to	11	MR. JACKSON: Objection, form.
12	oxidative degradation over time.	12	A. It's data. He gives me the data with a
13	BY MR. HUTCHINSON:	13	little note and it tells what the pan is, but I
14	Q. But the life expectancy is subjective,	14	don't recall offhand what the pan is.
15	isn't it, sir?	15	BY MR. HUTCHINSON:
16	MR. JACKSON: Objection, form.	16	Q. Where is the data that Steve Johnson gave
17	A. It is subject to the conditions in the	17	you?
18	body, yes, certainly.	18	A. It would be on my computer.
19	BY MR. HUTCHINSON:	19	Q. It is not included on this flash drive, is
20	Q. It is also subjective according to the	20 21	it, sir?
21	ASTM protocol, correct?  A. It's always subjective, lifetime of any	21	<ul><li>A. It probably is.</li><li>Q. Can you testify under oath that this data</li></ul>
, ,			
22	·		· · · · · · · · · · · · · · · · · · ·
22 23 24	article is subject to the conditions that the part is under, exposed to.	23 24	that Steve Johnson gave you is contained on this flash drive?

14 (Pages 50 to 53)

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Page 54 1 MR. JACKSON: Objection, form. 2 A. Not without checking to confirm for sure. 3 I believe I put it on there. BY MR. HUTCHINSON: 4 5 Q. Doctor, sitting here today, can you tell 6 us the type of specimen holder that Steve Johnson 7

- 8 A. A DSC pan, and I don't recall what the 9 metal was.
- 10 Q. Do you know if Steve Johnson used more 11 than one specimen holder?
- A. The little DSC pans are disposable. In 12 other words, for the OIT test, he uses a specific 13 type of pan that he knows to be, not influence the 14 15 data and that's the type of pan he uses. I just 16 don't recall offhand what the metal is.
- 17 Q. Doctor, have you done anything to determine if the specimen holder that Steve Johnson 18 19 used affected the results?

MR. JACKSON: Objection, form.

20 21 A. As I say, he in the past has run tests, since he runs the OIT for me all the time, to 22 23 confirm the OIT test as he runs it is unaffected by the pan that he uses. It's just I don't recall what

processes checked by auditors.

And so the DSC pan is always the same. It's been confirmed by him not to affect the results. That's the pan he used. I just can't recall what the metal is offhand.

Page 56

Page 57

Q. That's right. But my question to you is: Have you personally -- I'm not talking about Steve Johnson, I'm talking about you personally -- have you personally done anything to determine if the specimen holder affected the results?

MR. JACKSON: Objection, asked and

A. Other than how I have just answered it, 14 no.

#### 15 BY MR. HUTCHINSON:

16 Q. Doctor, can you use your DSC data to make 17 lifetime calculations when one is in pure oxygen and the other is implanted in vivo? 18

MR. JACKSON: Objection, form. 19

A. I wasn't trying to do that. That wasn't 21 the purpose. My purpose for running the test was to look at variability of ten different mesh samples.

That was my intent. And so I was looking to see if,

when these different samples with the same

Page 55

metal it is.

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#### BY MR. HUTCHINSON:

- Q. I understand that, Doctor, but I'm asking you, have you done anything personally to determine if the specimen holder that Steve Johnson used affected the test results?
  - A. I don't run DSC, so technicians do that.
- 8 Q. Have you done anything, sir, personally to 9 determine if the specimen holder affected the 10 results?

MR. JACKSON: Objection, asked and answered.

13 A. As I say, it was done in the past, on past 14 projects.

#### 15 BY MR. HUTCHINSON:

16 Q. I am talking about this project, sir. 17 Have you personally done anything to determine if 18 the specimen holder affected the results, yes or no? 19

MR. JACKSON: Objection, asked and 20 answered.

21 A. In the sense that I made sure that he is using his standard pan under the standard operating 22 procedures for the laboratory as an A2LA certified laboratory. They are annually audited, all their

antioxidant formulations in them, when they are

2 suddenly exposed to oxygen, do they have the same 3 OIT value or is it extremely variable. And I saw up to 150 percent variability from the low to the high 5 end.

The key message is that these implants have variability in their oxidation resistance. They aren't all the same. That's it. That's the only message that I was trying to figure out there.

10 (Priddy Deposition Exhibit 5 was marked for identification.) 11

#### BY MR. HUTCHINSON:

13 Q. Doctor, handing you what we'll mark as Exhibit 5 to your deposition. This is the ASTM 14 that you quoted in your expert report, correct? 15 16

MR. JACKSON: Objection, form.

A. Yes.

#### 18 BY MR. HUTCHINSON:

- 19 Q. I believe it is your testimony, you didn't 20 follow this ASTM 1980 protocol; is that right?
- 21 A. The only portion that I followed is this
- 22 Q10 estimate for trying to get a feel for predicting 23 lifetimes.
  - Q. Why didn't you follow anything else?

15 (Pages 54 to 57)

	Page 58		Page 60
1	MR. JACKSON: Objection, form.	1	MR. JACKSON: Objection, form.
2	A. Because it's not a it has to do with	2	A. No, it's just a normal, understood
3	sterile medical device packages, not what's inside.	3	scientific principle that reaction rates
4	So it's really not a standard that's directly	4	approximately double every 10 degrees.
5	applicable to this situation.	5	Q. Is that based on any scientific literature
6	BY MR. HUTCHINSON:	6	that you can tell me sitting here today?
7	Q. Doctor, fair to say you never did any	7	A. I could, if I was pressed to do so, I
8	real-time aging studies to confirm the accelerated	8	could come up with textbook references, organic
9	aging study results that you generated, correct?	9	chemistry 101, polymer chemistry 101 where they
10	A. That is correct.	10	teach this doubling of a reaction rate every
11	Q. All of the studies that you did are	11	10-degree principle. As I say, it's crude and it's
12	contained in your expert report; is that correct?	12	just for ballpark, is there a flag, kind of
13	MR. JACKSON: Objection, form.	13	calculations.
14	A. I mean, I mentioned a few minutes ago, I	14	Q. But it is your testimony, if I understand
15	ran the OIT test under pure oxygen and then	15	it, under oath that ASTM 1980 does not apply to the
16	switching from nitrogen to air, and I believe that's	16	testing you did, correct?
17	the only deviation that was done that wasn't	17	MR. JACKSON: Objection, form.
18	included in the report.	18	A. Yes, because it's for packaging. The only
19	BY MR. HUTCHINSON:	19	reason I reference it is because of that Q10
20	Q. Doctor, turn with me to Page 2.	20	doubling of reaction rate principle.
21	A. Of?	21	MR. JACKSON: Chad, we have been
22	Q. Of Exhibit 5 which is ASTM 1980.	22	going just about an hour. Are we at a
23	A. Yes.	23	good time for a break?
24	Q. There on Page 2, note 6.4, this is a	24	MR. HUTCHINSON: One more thing and
	Page 59		Page 61
1	protocol that you followed in determining the Q10	1	we'll take a quick break, okay?
2	level, correct?	2	(Priddy Deposition Exhibit 6 was
3	MR. JACKSON: Objection, form.	3	marked for identification.)
4	A. Q10.	4	BY MR. HUTCHINSON:
5	BY MR. HUTCHINSON:	5	Q. Doctor, handing you what we'll mark as
6	Q. Am I correct?	6	Exhibit 6 to your deposition. This is the
7	A. Not really, because they talk about three	7	de la Rie article that you quoted in your expert
8	temperatures here and I only ran one temperature,	8	report; is that correct?
9	200.	9	(Witness reviewing document.)
10	Q. Doctor, did you follow any type of	10	A. Yes.
11	protocol in your Q10 calculations for determining	11	Q. Did you read this before you quoted it in
12	the temperature that you used?	12	your expert report?
13	MR. JACKSON: Objection, form.	13	A. Yes.
14	A. The temperature that I used?	14	Q. Turn to Page 17 with me, please.
15	BY MR. HUTCHINSON:	15	A. Okay.
16	Q. Strike that. What did you use Q10 for?	16	Q. At the bottom of the column on the left,
17	A. The only portion of this that I used was	17	the paragraph starting out with "Materials," are
18	just what I described earlier, the doubling,	18	you there with me?
19	approximately doubling of reaction rate every	19	A. Yes.
20	10 degrees. That's the only I just referenced	20	Q. It states, "Materials which are not
21	this to support that concept for doing that crude	21	exposed to light" and by the way, mesh when
22	calculation. That's all.	22	planted in vivo is not exposed to light, is it?
2.2			
23 24	Q. Doctor, the double reaction rate for every 10 degrees, is that based on any ASTM standard?	23 24	MR. JACKSON: Objection, form.  A. No. Not while it is in vivo, it is not.

16 (Pages 58 to 61)

Page 62 Page 64 time is 10:08 a.m. BY MR. HUTCHINSON: 1 1 2 Q. "Materials which are not exposed to light 2 BY MR. HUTCHINSON: 3 during their normal life could be tested in heat 3 Q. Doctor, we are back on the record. Have 4 aging experiments." 4 you understood all my questions so far? A. Yes. 5 In fact, that's what you did, correct, a 5 б heat aging experiment, correct, on mesh? 6 Q. Is there anything about the testimony 7 7 MR. JACKSON: Objection, form. that you have given that you would like to change? A. Yes, I did. 8 8 MR. JACKSON: Objection, form. 9 BY MR. HUTCHINSON: 9 A. Not at this point. BY MR. HUTCHINSON: 10 Q. It goes on to say, "But if temperatures 10 are used which are considerably higher than the ones 11 11 Q. Turn with me to Exhibit 2. That's your the material is exposed to under normal 12 12 expert report. circumstances, the danger exists of introducing new 13 A. Okay, got it. 13 degradation reactions." 14 Q. On Page 3 you state you are a plastics 14 Did I read that correct? consultant for medical supply companies? 15 15 16 A. Yes, you did. 16 A. Yes. 17 Q. Doctor, did you consider that before you 17 Q. What type of products? did your accelerated aging tests? 18 18 A. Oh, boy. Q. Let me ask you this: Any products 19 A. Yes. 19 20 Q. Did you know what de la Rie said about 20 regarding polypropylene? using higher temperatures? 21 A. I mean, I have done materials selection 21 A. Yes. work for Baxalta. 22 2.2 Q. Let's focus on polypropylene. 23 Q. How did you account for that? 23 24 24 A. I considered polypropylene as I was A. By stating that it is only a rough Page 63 Page 65 approximation and has to be validated with actual selecting material, so they just asked me to 2 real-time studies because of this possibility. recommend a material for a certain application. And 3 Q. Doctor, did you do any type of calculation 3 I considered polypropylene and ruled it out, just 4 regarding the Arrhenius rate reaction for didn't have the right properties for the 5 5 polypropylene? application. 6 MR. JACKSON: Objection, form. 6 Q. Doctor, have you ever selected a polymer 7 A. That has been done in the literature 7 that has a lifetime warranty? 8 before. 8 MR. JACKSON: Objection, form. 9 9 A. I don't believe so. BY MR. HUTCHINSON: 10 Q. I am asking you: Did you do any 10 BY MR. HUTCHINSON: calculation for the Arrhenius rate reaction for 11 11 Q. Doctor, would you ever guarantee to the recipients of these medical devices that you 12 polypropylene? 12 consulted for, would you ever guarantee to them that 13 MR. JACKSON: Objection, form. 13 14 A. Not on my data, no, I couldn't, because I 14 their material would never oxidize? only ran at one temperature. I did not run at 15 MR. JACKSON: Objection, form. 15 three temperatures. You have to run at three 16 16 A. No. 17 temperatures to do the Arrhenius calculations. 17 BY MR. HUTCHINSON: 18 MR. HUTCHINSON: We can take a quick 18 Q. Doctor, on Page 3 of your expert report, you reference ISOT. That stands for incipient 19 break. 19 20 THE VIDEOGRAPHER: We are now off 20 surface oxidation time: is that correct? 21 21 A. Yes. the video record. The time is 10:01 a.m. 22 22 Q. Is ISOT in any ASTM standard? (Recess.) 23 THE VIDEOGRAPHER: We are back on 23 A. It is nowhere. That is my own acronym. 24 the video record with Tape Number 2. The 24 Q. Doctor, you didn't use a publication to

17 (Pages 62 to 65)

	Page 66		Page 68
1	come up with your own acronym, did you?	1	A. Are you talking about in the human body?
2	A. I did not.	2	BY MR. HUTCHINSON:
3	Q. You made it up just for this experiment,	3	Q. Yes, sir.
4	didn't you?	4	A. Hydrogen peroxide, there's all sorts of
5	MR. JACKSON: Objection, form.	5	oxidizing agents.
6	A. No.	6	Q. All right, hydrogen peroxide. What else?
7	BY MR. HUTCHINSON:	7	A. Again, I'm not a medical doctor or a
8	Q. Where did you come up with your own	8	pathologist, but I have read many reports that refer
9	acronym?	9	to oxidizing agents being present in the body,
10	MR. JACKSON: Objection, form.	10	especially with foreign body reactions. The body
11	A. As I say, I have been using OIT testing	11	will generate oxidizing species.
12	for years.	12	Q. Those are called reactive oxygen species,
13	BY MR. HUTCHINSON:	13	correct?
14	Q. I want to talk about ISOT.	14	A. Right, ROS.
15	A. Yes, I know. And as part of that, I look	15	Q. My question to you is, though, can you
16	at the shape of the OIT curve because normally it is	16	name the oxidizing agents that you are aware of in
17	a nice, smooth transition with two slopes and when	17	the human body?
18	you get the baseline meandering around and doing	18	MR. JACKSON: Objection, asked and
19	strange things, you know that there's something	19	answered.
20	going on that's not normal. And so I always, just	20	A. I just named one, hydrogen peroxide.
21	for my own thought processes, identify the point to	21	BY MR. HUTCHINSON:
22	where something chemically starts to happen and I	22	Q. Can you name any others?
23	call that the incipient oxidation point.	23	MR. JACKSON: Objection, asked and
24	Q. But that's something you made up?	24	answered.
	Page 67		Page 69
1	A. I did, yes.	1	A. There's all sorts of peroxidases which are
2	Q. Doctor, if you look at Page 5, it states,	2	oxidative enzymes.
3	polypropylene is subject to degradation or weakening		BY MR. HUTCHINSON:
4	by oxidative agents.	4	Q. Other than hydrogen peroxide and enzymes,
5	A. Where are you at now?	5	can you name any other type of oxidizing agents?
6	Q. Page 5.	6	MR. JACKSON: Objection, misstates
7	MR. JACKSON: Chad, can you let us	7	witness testimony.
8	know which paragraph you are on?	8	A. Oxygen.
9	MR. HUTCHINSON: Yes, I'm sorry.	9	BY MR. HUTCHINSON:
10	Second paragraph, second sentence.	10	Q. Anything else?
11	THE WITNESS: Okay.	11 12	A. That's all I can recall at this point.
12 13	BY MR. HUTCHINSON:	13	Q. Doctor, do you know the amount of hydrogen
14	Q. It states, the "chemical reactions	14	peroxide that's secreted in the body?
15	continue to occur so long as any oxidizing agents,	15	MR. JACKSON: Objection, form. A. No.
	such as those present in the human body, are	16	A. NO. BY MR. HUTCHINSON:
16 17	present." Do you see that?  A. Yes.	17	
18		18	Q. Can you quantify it?
19	Q. Doctor, what are the names of the oxidizing agents?	19	MR. JACKSON: Objection. A. I cannot.
20		20	A. 1 cannot. BY MR. HUTCHINSON:
21	MR. JACKSON: Objection, form. A. Excuse me?	21	Q. Have you ever attempted to quantify it?
22	Q. What are the names of the oxidizing agents	22	A. No.
23	that you reference here?	23	Q. Have you ever used any type of
24	MR. JACKSON: Objection, form.	24	concentration of hydrogen peroxide to determine how
	interest of the objection, formi		personal to determine now

18 (Pages 66 to 69)

	Page 70		Page 72
1	it affects Prolene?	1	A. Absolutely.
2	A. I have not done that.	2	BY MR. HUTCHINSON:
3	Q. Doctor, do you have any idea how many or	3	Q. Doctor, do you have any idea how the
4	what type of strike that.	4	concentration level of hydrogen peroxide found
5	Do you have any idea of the amount of	5	naturally in the body compares to 30 percent of
6	enzymes, oxidizing enzymes that are secreted from	6	hydrogen peroxide?
7	the body?	7	MR. JACKSON: Objection, form.
8	MR. JACKSON: Objection, form.	8	A. I do not.
9	A. I have never measured it, no.	9	BY MR. HUTCHINSON:
10	BY MR. HUTCHINSON:	10	Q. You would expect 30 percent hydrogen
11	Q. To your knowledge, has it ever been	11	peroxide to be much stronger than the amount of
12	quantified?	12	peroxide found in the body, correct?
13	A. I do not know.	13	MR. JACKSON: Objection, form.
14	Q. Doctor, sitting here today, can you	14	A. Absolutely, yes.
15	quantify the amount of oxidizing agents that are	15	(Priddy Deposition Exhibit 7 was
16	produced by the human body?	16	marked for identification.)
17	MR. JACKSON: Objection, asked and	17	BY MR. HUTCHINSON:
18	answered.	18	Q. Doctor, I will hand you what's been marked
19	A. Are you asking have I done it or could it	19	as Exhibit 7 to your deposition. Doctor, this is a
20	be done?	20	memo from Ethicon dated November 5, 1984. Do you
21	BY MR. HUTCHINSON:	21	see that?
22	Q. I am asking, have you done it?	22	(Witness reviewing document.)
23	A. I have not done it.	23	A. I do.
24	Q. Do you know the amount of oxidizing agents	24	Q. If you look with me, please, and by the
	Page 71		Page 73
1	produced by the human body?	1	way, this is a document that you reviewed or relied
2	MR. JACKSON: Objection, asked and	2	on in reaching your opinions?
3	answered.	3	A. I have, yes.
4	A. No.	4	Q. If you look with me on Page 3 at the
5	BY MR. HUTCHINSON:	5	top
6	Q. Doctor, do you have any opinions regarding	6	MR. JACKSON: Chad, can you give us
7	the quantity of oxidizing agents it would take to	7	the Bates number of the page you are on?
8	oxidize Prolene?	8	MR. HUTCHINSON: Yes, it's 15958454.
9	A. Well, Prolene is an oxidizable material,	9	MR. JACKSON: Thank you.
10	so any oxidant is capable of oxidizing Prolene.	10	BY MR. HUTCHINSON:
11	Q. My question, sir: Do you have any idea	11	Q. Top paragraph, middle sentence, it says,
12	about the concentration level of oxidizing agents	12	"Immersion, with Peroxide Changes."
13	that it would take to oxidize Prolene?	13	Do you see that?
14	A. Any detectable, measurable amount of an	14	A. Yes.
15	oxidizing species is capable of oxidizing Prolene.	15	Q. "To ensure strength of Prolene sutures, in
16	Q. Can you quantify that, Doctor?	16	30 percent hydrogen peroxide after a year's time at
17	MR. JACKSON: Objection, form.	17	room temperature do not produce visible surface
18	A. A detectable, I don't know what the	18	cracks on any of the fibers."
19	detection limit of a test you want to use, but if it	19	Do you see that?
20	is detectable, it is capable of oxidizing Prolene.	20	A. I do.
21	BY MR. HUTCHINSON:	21	Q. Doctor, do you have any reason to disagree
22	Q. What about a micromole, can a micromole	22	with this statement?
23	oxidize Prolene?	23	A. No.
24	MR. JACKSON: Objection, form.	24	Q. This shows that Prolene exposed to

19 (Pages 70 to 73)

	Page 74		Page 76
1 3	30 percent hydrogen peroxide for a year did not	1	Do you see that?
	produce visible surface cracks; is that correct?	2	A. Yes.
2 p	A. That's what that's saying, yes.	3	Q. Doctor, have you tested that opinion?
4	Q. Doctor, how did you account for that when	4	MR. JACKSON: Objection, form.
	reaching your opinions in this case?	5	A. That is basic polymer chemistry 101.
6	A. Irrelevant.	6	BY MR. HUTCHINSON:
7	Q. Why?	7	Q. My question is: Have you tested that
8	A. Because they didn't do anything to	8	opinion?
	determine whether the material had oxidized or not.	9	MR. JACKSON: Objection, form.
10	Q. Doctor, how do you know that?	10	A. Yes.
11	A. I don't see the data where they detected	11	BY MR. HUTCHINSON:
	whether or not oxidation had actually, degradation	12	Q. Are the test results included in your
	of the material had occurred. They just looked for	13	expert report?
	surface cracks.	14	A. No.
15	Q. Doctor, surface cracks are a form of	15	Q. Doctor, what is the rate that chemicals
	degradation, are they not?	16	extract the antioxidant stabilizers?
17	A. Yes.	17	MR. JACKSON: Objection, form.
18	Q. In fact, visible surface cracks are a form	18	A. It is dependent upon conditions.
	of oxidation via degradation, correct?	19	BY MR. HUTCHINSON:
20	A. Yes.	20	Q. What about conditions in vivo, what is the
21	Q. Doctor, what is a Bakelite cap?	21	rate that conditions in vivo extract Santonox R or
22	A. A Bakelite what?	22	DLTDP?
23	Q. Spelled B-A-K-E-L-I-T-E, do you know what		A. That will be dependent upon a lot of
	a Bakelite cap is on a glass vial?	24	variables.
	Page 75		Page 77
1	MR. JACKSON: Objection, form.	1	Q. Doctor, can you sit here today and
2	A. Yes.	2	quantify that rate of extraction?
3 E	BY MR. HUTCHINSON:	3	MR. JACKSON: Objection.
4	Q. What are Bakelite caps generally made of?	4	A. No.
5	A. Bakelite, which is a phenolic resin.	5	BY MR. HUTCHINSON:
6	Q. Doctor, can you explain why the hydrogen	6	Q. Doctor, can you explain to us in chemical
7 p	peroxide ate away the Bakelite cap and did not	7	terms how blood extracts antioxidant stabilizers?
8 a	affect the Prolene?	8	A. You mean scientifically how?
9	A. Yes.	9	Q. Yes, sir.
10	Q. How so?	10	A. Blood contains water plus a lot of other
11	A. Bakelite is a very hydrophilic,	11	things, it contains triglycerides, lipids, different
	water-loving, resin because phenolics are	12	things. And it is the oil or the hydrophobic
	nydroxylated materials which are hydrophylic.	13	components in blood, the fats, the oils, the lipids,
	Polypropylene is very hydrophobic, water-hating, so	14	that extract the stabilizers from the plastic, and
	polypropylene repulses and does not absorb water,	15	even Dr., it starts with B, the Ethicon guy that did
	whereas Bakelite does absorb water. So the water,	16	the FTIR work, he measured the level of dilauryl
	he hydrogen peroxide would penetrate into the	17	thiodipropionate in the surface of sutures that had
	Bakelite and allow chemical oxidation to occur.	18	been removed and saw that there was no detectable,
19	Q. Let's look at Page 5 of your expert	19	it was all extracted out of the surface. So even
	report, Doctor.	20	Ethicon knows that these antioxidants are
21	A. Page 5, okay.	21	extractable from the material.
22	Q. Bottom paragraph, about the middle of the	22	Q. Doctor, do you know what formalin is?
	paragraph. It states, "These chemicals act to	23	A. Yes.
24 e	extract the antioxidant stabilizers."	24	Q. You understand that formalin contains

20 (Pages 74 to 77)

	Page 78		Page 80
1	formaldehyde?	1	A. That's correct.
2	A. Yes.	2	Q. And a free radical is strike that.
3	Q. Is formaldehyde a solvent?	3	There is no difference between a free
4	A. It is normally 37 percent concentration of	4	radical formed in the body or a free radical formed
5	water, but is it a solvent? Not really.	5	during the heat extrusion process, correct?
6	Q. Would you consider formalin to be a	6	MR. JACKSON: Objection, form.
7	solvent?	7	A. In the sense they are both free radicals.
8	A. Formalin is 37 percent formaldehyde and	8	BY MR. HUTCHINSON:
9	water. Water is a terrible solvent. It is not	9	Q. In fact, Santonox R and DLTDP are free
10	going to extract anything of consequence from	10	radical scavengers, aren't they?
11	polypropylene. Polypropylene is repulsive to water.	11	A. DLTDP is not a free radical scavenger,
12	Q. But my question, sir: Is formalin a	12	Santonox R is a free radical scavenger.
13	solvent?	13	Q. Why do you say DLTDP is not a free radical
14	A. It is a solvent for ionic species, but it	14	scavenger?
15	is not a solvent for like additives.	15	A. Because it works by a different mechanism.
16	Q. Doctor, would you be able to draw out the	16	What it does is the sulfur reacts with oxygen
17	chemical structure for the reaction between blood	17	species.
18	and Santonox R?	18	It doesn't have to be a free radical
19	MR. JACKSON: Objection, form.	19	oxygen, it can just be oxygen, specifically
20	A. The Santonox R does not react with blood,	20	hydroperoxides, to become a higher, either a sulfone
21	it reacts with oxidizing species that would be	21	or a sulfoxide which is a higher oxidized form. The
22	in the blood.	22	sulfur converts the hydroperoxide group to an
23	BY MR. HUTCHINSON:	23	alcohol. But that's a different chemistry. That's
24	Q. Doctor, if we turn to Page 7 of your	24	not free radical-based.
	Page 79		Page 81
1	expert report, top paragraph, last sentence, you	1	Q. Let's talk about the chemistry for
2	reference antioxidant Santonox R that interferes	2	Santonox R.
3	with the oxidative chain reaction.	3	MR. JACKSON: Chad, he wasn't
4	A. Yes.	4	through answering his question. You got
5	Q. Is that correct?	5	to let him finish.
6	A. Yes.	6	BY MR. HUTCHINSON:
7	Q. Doctor, we talked about ROS earlier, just	7	Q. Santonox R is designed to remove free
8	a minute ago, correct?	8	radicals when they are formed, correct?
9	MR. JACKSON: Objection, form.	9	A. I wouldn't say remove, but negate the
10	A. Yes.	10	effects of free interferes with free radical
11	BY MR. HUTCHINSON:	11	chain reactions.
	Q. And that stands for reactive oxygen	12	Q. Doctor, let's look at Page 8 at the top.
12			
13	species?	13	You reference the testing you did, the gas
13 14	A. Correct.	14	chromatography, mass spectroscopy, did I say that
13 14 15	<ul><li>A. Correct.</li><li>Q. And reactive oxygen species, they possess</li></ul>	14 15	chromatography, mass spectroscopy, did I say that A. That's correct.
13 14 15 16	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they?	14 15 16	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did?
13 14 15 16 17	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form.	14 15 16 17	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes.
13 14 15 16 17 18	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes.	14 15 16 17 18	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing?
13 14 15 16 17 18 19	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes. BY MR. HUTCHINSON:	14 15 16 17 18 19	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing? A. GC-MS.
13 14 15 16 17 18 19 20	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes. BY MR. HUTCHINSON: Q. And a reactive oxygen species has a	14 15 16 17 18 19 20	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing? A. GC-MS. Q. GC-MS testing?
13 14 15 16 17 18 19 20 21	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes. BY MR. HUTCHINSON: Q. And a reactive oxygen species has a non-bonded electron that wants to bond with	14 15 16 17 18 19 20 21	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing? A. GC-MS. Q. GC-MS testing? A. I don't run lab equipment. Trained
13 14 15 16 17 18 19 20 21 22	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes. BY MR. HUTCHINSON: Q. And a reactive oxygen species has a non-bonded electron that wants to bond with something, doesn't it?	14 15 16 17 18 19 20 21 22	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing? A. GC-MS. Q. GC-MS testing? A. I don't run lab equipment. Trained technicians run lab equipment. I worked with a
13 14 15 16 17 18 19 20 21	A. Correct. Q. And reactive oxygen species, they possess a free radical, don't they? MR. JACKSON: Objection, form. A. They can, yes. BY MR. HUTCHINSON: Q. And a reactive oxygen species has a non-bonded electron that wants to bond with	14 15 16 17 18 19 20 21	chromatography, mass spectroscopy, did I say that A. That's correct. Q. Is that the testing that you did? A. Yes. Q. Did you personally do the GS-MC testing? A. GC-MS. Q. GC-MS testing? A. I don't run lab equipment. Trained

21 (Pages 78 to 81)

Page 82 Page 84 Q. Who did the GC-MS testing, Doctor? 1 A. No, I did not. 1 2 A. Steve Johnson. 2 Q. Doctor, did Steve Johnson perform any 3 Q. He did it too? 3 controls in his GC-MS experiment? 4 A. Yes, he is the technician that does GC-MS 4 A. Yes. 5 and the OIT test. 5 Q. What were they? 6 Q. Which did Steve Johnson do first, did he 6 A. He always puts in an internal standard in 7 do the GC-MS or the DSC testing? 7 the solvent that he extracts, the additives from the MR. JACKSON: Objection, form. 8 plastic, and that internal standard he looks at the 8 9 A. He did the OIT first and then I wanted to 9 size of the response and the retention time to make 10 see if it correlated with the additives so I asked sure that the equipment is operating. In other 10 him to do GC-MS so I could see if there was a 11 words, it is a known material spiked into the solvent and if that peak is not right, he knows 12 statistical correlation. 12 13 there's an issue. 13 BY MR. HUTCHINSON: Q. Let's talk about the GC-MS testing that 14 Q. Did that generate data? 14 Steve Johnson did. Did Steve Johnson's GC-MS MR. JACKSON: Chad, you have to let 15 15 16 experiment follow any standard or published 16 the witness finish his answer. 17 procedure? 17 BY MR. HUTCHINSON: 18 A. It followed what's called SOP, standard 18 Q. I'm sorry, Doctor, if I interrupted you. operating procedure. Again, all certified Did that generate data? 19 19 laboratories need SOPs for everything they do. 20 A. What do you mean? 20 Those SOPs are audited annually, and he followed 21 Q. Using the control, when Mr. Johnson used 21 his SOP for GC-MS. 22 the control, did it generate any data? 22 23 Q. Which SOP did Mr. Johnson follow? 23 A. Yes. 24 A. The one for GC-MS in the lab. 24 Q. Where is that data? Page 83 Page 85 1 O. But what number? 1 A. It would be in his GC-MS data report. 2 2 A. I don't -- it's probably in the lab report Q. Is Mr. Johnson's GC-MS data report 3 he sent me, but I don't have the number memorized. 3 included on the flash drive that you gave me before the deposition? 4 Q. Doctor, did you ever touch the GC-MS equipment? 5 5 A. I believe so. 6 6 MR. JACKSON: Objection, form. Q. Why wasn't that GC-MS data included in 7 A. No. 7 your expert report? 8 8 BY MR. HUTCHINSON: A. I included just this comment of the 9 correlation, but I did not include the data in the 9 Q. Did you ever touch the DSC equipment? MR. JACKSON: Objection, form. 10 10 report. A. No. 11 Q. But why not? Why didn't you include the 11 12 data in your report? 12 BY MR. HUTCHINSON: 13 A. I just didn't. 13 Q. Have you ever even seen the GC-MS or DSC 14 equipment? 14 Q. Doctor, did Steve Johnson ever try to 15 MR. JACKSON: Objection, form. 15 measure the concentration level of DLTDP? A. Yes. A. Yes, I have. 16 16 17 BY MR. HUTCHINSON: 17 Q. What was the result of the concentration 18 Q. At Steve Johnson's lab? 18 level of DLTDP? A. At Steve Johnson's lab. As a matter of 19 19 A. When he ran the test, he did not see the 20 fact I have watched him in the past run it. 20 DLTDP. He couldn't detect it. 21 Q. Doctor, have you personally ever tried to 21 Q. But you didn't watch him do this experiment --22 measure the concentration level of DLTDP in Prolene? 22 23 A. Through Steve Johnson I have attempted to 23 A. No. 24 do it. 24 Q. -- that we are here about today?

22 (Pages 82 to 85)

	Page 86		Page 88
1	Q. But you personally?	1	MR. JACKSON: Objection, form.
2	MR. JACKSON: Objection, asked and	2	A. That's correct, yes.
3	answered.	3	BY MR. HUTCHINSON:
4	A. I have not run the equipment, no.	4	Q. Doctor, did you do any type of appropriate
5	BY MR. HUTCHINSON:	5	testing to determine the level of DLTDP in Prolene?
6	Q. Doctor, are you aware of any studies that	6	MR. JACKSON: Objection, form.
7	show DLTDP is lost from Prolene once it is implanted	7	A. Yes, I tried to. I actually had him
8	in vivo?	8	experiment with different conditions to try to
9	A. Yes.	9	detect the DLTDP. He did find a condition where he
10	Q. What's the name of the study?	10	was able to see it. It's just not so it's there,
11	A. That was done by Dr. Burkley, I think his	11	it's just not reported in this data.
12	name was.	12	Q. What test did he use to detect DLTDP?
13	Q. You are talking about an internal Ethicon	13	A. GC-MS, again. It's just he ran it under
14	scientist?	14	different conditions.
15	A. Yes.	15	Q. Doctor, why is that information not in
16	Q. Doctor, are you aware of any published	16	your expert report?
17	peer-reviewed literature that shows DLTDP is lost	17	A. Because the purpose for doing it was to
18	from Prolene in vivo?	18	just make sure that it was there. I wanted to make
19	A. Just Dr. Burkley's work.	19	sure it was there.
20	Q. And nothing else, correct?	20	Q. And you confirmed it was there?
21	A. That's correct.	21	A. I confirmed it was there.
22	Q. Doctor, have you ever read Dr. Howard	22	Q. Or rather Mr. Johnson confirmed it was
23	Jordi's expert reports?	23	there?
24	A. I don't recall.	24	MR. JACKSON: Objection, form.
	Page 87		Page 89
1	Page 87 Q. Do you know Dr. Howard Jordi?	1	Page 89 A. Yes.
1 2		1 2	
	Q. Do you know Dr. Howard Jordi?		A. Yes.
2	<ul><li>Q. Do you know Dr. Howard Jordi?</li><li>A. I know there's a Jordi Lab.</li></ul>	2	A. Yes. BY MR. HUTCHINSON:
2	<ul><li>Q. Do you know Dr. Howard Jordi?</li><li>A. I know there's a Jordi Lab.</li><li>Q. Do you know if the Jordi Labs ever</li></ul>	2 3	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test.
2 3 4	<ul><li>Q. Do you know Dr. Howard Jordi?</li><li>A. I know there's a Jordi Lab.</li><li>Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene?</li></ul>	2 3 4	<ul><li>A. Yes.</li><li>BY MR. HUTCHINSON:</li><li>Q. Doctor, let's go back to the GC-MS test.</li><li>Did you determine the weight loss for Santonox R</li></ul>
2 3 4 5	<ul><li>Q. Do you know Dr. Howard Jordi?</li><li>A. I know there's a Jordi Lab.</li><li>Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene?</li><li>A. I don't know.</li></ul>	2 3 4 5 6 7	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate?
2 3 4 5 6 7 8	<ul> <li>Q. Do you know Dr. Howard Jordi?</li> <li>A. I know there's a Jordi Lab.</li> <li>Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene?</li> <li>A. I don't know.</li> <li>Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct?</li> </ul>	2 3 4 5 6	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean
2 3 4 5 6 7 8 9	<ul> <li>Q. Do you know Dr. Howard Jordi?</li> <li>A. I know there's a Jordi Lab.</li> <li>Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene?</li> <li>A. I don't know.</li> <li>Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct?</li> <li>MR. JACKSON: Objection, form.</li> </ul>	2 3 4 5 6 7 8 9	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA?
2 3 4 5 6 7 8 9	Q. Do you know Dr. Howard Jordi? A. I know there's a Jordi Lab. Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene? A. I don't know. Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct? MR. JACKSON: Objection, form. A. No.	2 3 4 5 6 7 8 9	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA? Q. Yes, by glass transition, correct.
2 3 4 5 6 7 8 9 10	Q. Do you know Dr. Howard Jordi? A. I know there's a Jordi Lab. Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene? A. I don't know. Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct? MR. JACKSON: Objection, form. A. No. BY MR. HUTCHINSON:	2 3 4 5 6 7 8 9 10	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA? Q. Yes, by glass transition, correct. A. No, TGA is thermogravimetric analysis.
2 3 4 5 6 7 8 9 10 11	Q. Do you know Dr. Howard Jordi? A. I know there's a Jordi Lab. Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene? A. I don't know. Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct? MR. JACKSON: Objection, form. A. No. BY MR. HUTCHINSON: Q. I thought you told me your tests did not	2 3 4 5 6 7 8 9 10 11	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA? Q. Yes, by glass transition, correct. A. No, TGA is thermogravimetric analysis. It measures weight loss of materials versus
2 3 4 5 6 7 8 9 10 11 12 13	Q. Do you know Dr. Howard Jordi? A. I know there's a Jordi Lab. Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene? A. I don't know. Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct? MR. JACKSON: Objection, form. A. No. BY MR. HUTCHINSON: Q. I thought you told me your tests did not detect DLTDP.	2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA? Q. Yes, by glass transition, correct. A. No, TGA is thermogravimetric analysis. It measures weight loss of materials versus temperature.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Do you know Dr. Howard Jordi? A. I know there's a Jordi Lab. Q. Do you know if the Jordi Labs ever detected DLTDP in Prolene? A. I don't know. Q. If Dr. Jordi's lab did detect DLTDP in Prolene, that would be inconsistent with the results of your tests, correct? MR. JACKSON: Objection, form. A. No. BY MR. HUTCHINSON: Q. I thought you told me your tests did not detect DLTDP. A. No, I'm saying that the way the test was run, it did not detect it. He only saw a peak for the Santonox R. Q. Doctor, is it your testimony under oath that the Prolene sample that Mr. Johnson used did not have any DLTDP in it? A. No, it likely did. It's just the way that particular test was run, it was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. BY MR. HUTCHINSON: Q. Doctor, let's go back to the GC-MS test. Did you determine the weight loss for Santonox R before Steve Johnson did his testing? A. Weight loss? Q. The weight loss rate? A. I don't understand the question. You mean by TGA? Q. Yes, by glass transition, correct. A. No, TGA is thermogravimetric analysis. It measures weight loss of materials versus temperature. Q. TGA? A. TGA. Q. Did you do any type of TGA analysis to determine the weight loss for DLTDP? A. No. Q. Did you do any type of TGA analysis to determine the weight loss of Santonox R? A. No.

23 (Pages 86 to 89)

Page 92 Page 90 the heat process, was by retention time and the gas ramped up over time because these additives, like 2 chromatograph which gives me a feel for volatility. 2 if the oven temperature was set at 40 degrees and 3 Q. Doctor, do you know what the recommended 3 you injected the sample, the additive would never ranges are for DLTDP and Santonox R by weight? 4 come through the instruments. So you've got to keep 4 5 MR. JACKSON: Objection, form. 5 raising the temperature until it comes through. 6 A. I mean, that's application-specific. I 6 Q. What temperature was it when the material 7 7 know what the formulation for Prolene, has a target began coming through? range of weight. 8 MR. JACKSON: Objection, form. 8 9 BY MR. HUTCHINSON: 9 A. I can't tell you precisely. I can tell you it was over 200 degrees. 10 Q. Do you know what the target range of 10 11 weight of DLTDP and Santonox R is for Prolene? 11 BY MR. HUTCHINSON: A. I have seen it. It seems like it was 12 12 Q. Was a solvent used by Mr. Johnson with between 2,000 and 4,000 parts per million or .2 to 13 this GC-MS? 13 .4 percent, I think, in that range. It's probably 14 14 A. Yes. 15 not correct, but in that ballpark. 15 Q. Do you know what type of solvent Mr. 16 Q. Doctor, do you know what the weight loss 16 Johnson used? 17 rate is for DLTDP? 17 A. Methylene chloride. Q. Do you know what quantity of methylene 18 A. From Prolene? 18 chloride that Mr. Johnson used? 19 Q. Yes. 19 A. Again, it is in his lab procedure he sent 20 A. Under what conditions? 20 21 Q. In vivo. 21 me. I don't know the number offhand. Q. Doctor, you will agree that that solvent 22 A. In vivo, again, the only data point I got 22 23 is Dr. Burkley's data where he saw it was totally 23 only extracts volatile materials, correct? depleted from the surface after a period of time in 24 MR. JACKSON: Objection, form. Page 91 Page 93 1 vivo. 1 A. No. 2 Q. Doctor, do you know what the weight loss BY MR. HUTCHINSON: 3 rate is for DLTDP in vivo? 3 Q. Does it extract volatile materials? 4 4 A. That's what I just answered. The only A. Yes. 5 Q. Doctor, did you know -- my understanding 5 thing I know is from Dr. Burkley's work. Q. Same question for Santonox R: Do you know 6 6 in reading your report is that the GC-MS test only 7 7 found Santonox R; is that right? what the weight loss rate is for Santonox R in vivo? 8 8 A. That's the only stabilizer that it saw, 9 9 Q. Doctor, do you know what the melting point that he identified as a stabilizer. 10 is for DLTDP? 10 Q. Did it pick up any other type of additives A. Not offhand. 11 11 to the Prolene? Q. Do you know what the melting point for 12 12 MR. JACKSON: Objection, form. 13 Santonox R is? 13 A. I do not believe so. 14 A. Again, not offhand. 14 BY MR. HUTCHINSON: 15 Q. Doctor, when we talk about the GC-MS Q. Doctor, did the GC-MS that Mr. Johnson 15 testing, what color was the exemplar that Steve did, did it detect Procol LA-10? 16 16 17 Johnson tested? 17 A. No. 18 A. It's in the lab report he sent me. He 18 Q. Why not? 19 listed the lot number and the color. 19 A. It was probably not volatile enough to 20 O. What color was it? 20 make it through the instrument. 21 A. I don't recall if it was blue or white. Q. Do you know what the flash point is for 21 I'd have to look at the lab report. 22 Procol LA-10? 22 23 Q. What temperature was the GC-MS set for? 23 A. Not offhand, no. 24 A. It's a program. Its oven temperature is 24 Q. Do you know the melting point?

24 (Pages 90 to 93)

	Page 94		Page 96
1	A. No.	1	marked for identification.)
2	Q. Do you know the flash point for Santonox	2	BY MR. HUTCHINSON:
3	R?	3	Q. Doctor, I want to hand you what we'll mark
4	A. No.	4	as Exhibit 8 to your deposition.
5	Q. Do you know the flash point for DLTDP?	5	(Witness reviewing document.)
6	A. I do not.	6	Q. Exhibit 8 is for an antioxidant DLTDP, do
7	Q. Do you know the flash point or melting	7	you see that?
8	point for calcium stearate?	8	A. I do.
9	A. No.	9	Q. The flash point for DLTDP is 150 degrees
10	Q. Do you have any idea why Mr. Johnson's	10	C; is that correct?
11	GC-MS test did not detect calcium stearate?	11	A. That's what it says, yes.
12	A. Yes.	12	Q. And Doctor, do you have any reason to
13	Q. Why?	13	believe that the flash point for DLTDP would be
14	A. It wouldn't be soluble in methylene	14	significantly different than 150 degrees C?
15	chloride. It's only going to extract out what's	15	A. No. It sounds low but I don't have any
16	soluble in that solvent.	16	reason to dispute it.
17	Q. Did the GCMS test detect any blue pigment?	17	Q. Doctor, a sample of mesh heated to
18	A. No.	18	200 degrees C is 50 degrees Celsius hotter than the
19	Q. Why not?	19	flash point for DLTDP, isn't it?
20	A. Either it's not soluble in methylene	20	A. That's correct.
21	chloride or its boiling point is too high to make	21	Q. Doctor, that would volatize DLTDP,
22	it through the gas chromatograph, one of the two.	22	wouldn't it?
23	Q. Do you know what the boiling point is of	23	A. No.
24	the CPC blue pigment?	24	Q. Why not?
	Page 95		Page 97
1	A. I do not.	1	A. Flash point has nothing to do with boiling
2	Q. Doctor, did you ever do any type of FTIR	2	point.
3	analyses on Prolene?	3	Q. A flash point is the temperature at which
4	A. No.	4	an organic compound gives off enough vapor to ignite
5	Q. Did Mr. Johnson to your knowledge do any	5	in air; is that right?
6	type of FTIR analyses on Prolene?	6	A. It's ignitable in air by a spark, yes.
7	A. No.	7	MR. JACKSON: Chad, I am going to
8	Q. Doctor, let's look at Page 12 of your	8	object to the use of this document just
9	expert report. Are you there with me?	9	on foundation. I don't know what it is.
10	A. I am.	10	BY MR. HUTCHINSON:
11	Q. It states, "The mesh sample," in the top	11	Q. Doctor, what did you do to ensure that
12	of the first paragraph.	12	DLTDP or Santonox R were not burned off when Mr.
13	A. Yes.	13	Johnson heated the mesh to 200 degrees C?
14	Q. "The mesh sample is heated to 200 degrees	14	A. As I explained to you, I had him determine
15	C under pure nitrogen."	15	its retention time in the GC which gave me a feel
16	Is that right?	16	for its level of volatility and based upon that
17	A. Yes.	17	data, I knew it was not a very volatile chemical.
18	Q. Doctor, do you know, we talked about this	18	And of course when chemicals are embedded in a
19	earlier, do you have any idea what the flash point	19	plastic, it's very difficult to drive them, vaporize
20	is for DLTDP?	20	them and get them out of the plastic at low levels.
21 22	MR. JACKSON: Objection, asked and	21 22	Q. Doctor, on Page 13 of your expert report
	answered. A. No.	23	under Section 11 it states, "The antioxidants," plural, "present in the ten meshes were then
22	CA INU	- Z J	prurar, present in the ten ineshes were then
23 24	(Priddy Deposition Exhibit 8 was	24	extracted."

25 (Pages 94 to 97)

	Page 98		Page 100
1	Did I read that correctly?	1	A. Okay.
2	A. That's correct.	2	Q. It states, "The polymer chain is
3	Q. DLTDP was found as an antioxidant in this	3	disentangled."
4	case; is that correct?	4	Do you see that?
5	MR. JACKSON: Objection, form.	5	A. Yes.
6	A. Just a minute. Let me read through this		Q. Doctor, would you agree that
7	real quick.		disentanglement of polymer chains allows a polymer
8	(Witness reviewing document.)	8	to elongate?
9	A. Now, what's your question?	9	MR. JACKSON: Objection, form.
10	BY MR. HUTCHINSON:	10	A. No.
11	Q. My question is, sir: Was DLTDP extracted	11	BY MR. HUTCHINSON:
12	using the methylene chloride solvent?	12	Q. Doctor, if polymers, if polymer chains do
13	A. All I can say is that in this particular	13	not disentangle, would the polymer become brittle?
14	test referred to right here, it was not detected,	14	A. If the polymer chains do not disentangle,
	and I don't know exactly why it wasn't detected. I	15	would the polymer become brittle?
	don't know if it wasn't extracted or if the	16	Q. Correct.
17	conditions for the GC-MS analysis just were such	17	A. Yeah, it can, yes.
	that it didn't detect it.	18	Q. But you disagree that disentanglement of
19	Q. Did you ever make any effort to find out	19	polymer chains allows a polymer to elongate?
20	why?	20	MR. JACKSON: Objection, misstates
21	MR. JACKSON: Objection, form.	21	witness testimony.
22	A. I asked him to try to detect DLTDP and he	22	A. A polymer will elongate under stress
23	played around and was finally able to come up with	23	whether or not it is entangled. So I guess I'm
	conditions that he could see it. But it was not	24	not
	Page 99		Page 101
1	this particular test right here, he couldn't see it.	1	BY MR. HUTCHINSON:
	BY MR. HUTCHINSON:	2	Q. Should the polymer chains become
3	Q. What concentration level did Mr. Johnson	3	disentangled for a polymer to elongate?
4	find DLTDP in?	4	A. No.
5	A. The particular I remember numbers,	5	Q. Doctor, when you reviewed the internal
6	hundreds of parts per million.	6	documents from Ethicon, did you review any documents
7	Q. Right, but can you quantify the amount of	7	on biocompatibility?
8	DLTDP concentration level that Mr. Johnson found?	8	MR. JACKSON: Objection, form.
9	A. I'm sorry, the question again?	9	Q. Doctor?
10	Q. Can you quantify the concentration level	10	A. I'm thinking. I guess I'm not sure
11	of the DLTDP that Mr. Johnson found?	11	specifically what you are referring to, but I would
12	A. As I said, it was hundreds of parts per	12	say yes.
13	million. I just don't remember the exact number.	13	Q. Do you have any opinions about the
14	Q. Did Mr. Johnson ever tell you that exact	14	biocompatibility testing of Prolene that Ethicon
15	number?	15	did?
16	MR. JACKSON: Objection, form.	16	A. I don't have an opinion on that.
17	A. Yes.	17	Q. Doctor, have you ever designed pelvic
18	BY MR. HUTCHINSON:	18	mesh?
19	Q. Where would that data be included?	19	MR. JACKSON: Objection, asked and
20	A. In the data report.	20	answered.
10-	Q. Where is the data report?	21	A. No.
21			
22	A. Should be on the flash drive.	22	BY MR. HUTCHINSON:
22 23		22 23	BY MR. HUTCHINSON: Q. Have you ever done any type of biomechanical testing of pelvic mesh?

26 (Pages 98 to 101)

Page 104 Page 102 A. The only testing I have done regarding 1 A. It's got stabilizers and additives, yes. 1 2 Prolene mesh are listed in my report. 2 BY MR. HUTCHINSON: 3 Q. So we are clear, you have never done any 3 Q. Prolene and polypropylene are not biomechanical testing of Prolene mesh, correct? 4 4 identical, are they? 5 5 A. That's correct. A. Prolene is polypropylene with additives. б Q. You have never done any type of 6 Q. And pure polypropylene is not identical to 7 7 biomechanical testing of Prolene, have you? Prolene, correct? 8 8 A. No. MR. JACKSON: Objection, asked and 9 Q. Have you ever been involved in any type of 9 answered. 10 clinical research regarding Prolene? 10 BY MR. HUTCHINSON: 11 A. Other than reviewing a lot of documents on 11 Q. Pure polypropylene? A. Because pure, with no additives, is 12 the research, no. 12 different than a formulation with additives, yes. 13 Q. My question is, sir: Have you personally 13 ever been involved in any type of clinical research 14 14 Q. And Ethicon's product is a formulation regarding Prolene? 15 with additives, correct? 15 A. Not as far as conducting the research, no. 16 A. That's correct. All polypropylene 16 17 Q. Or mesh, have you ever been involved in 17 products contain additives. They have to. 18 Q. But they are different polymers? any clinical research regarding mesh? 18 19 MR. JACKSON: Objection, form. 19 A. Polymer is the same. 20 A. Just reviewing the results of the studies, 20 Q. Doctor, what medical products are you 21 21 designated to give opinions about? that's it. A. You mean in legal cases? I've done 22 BY MR. HUTCHINSON: 2.2 23 Q. Have you ever tested a mesh explant? 23 consulting. 24 24 MR. JACKSON: Objection, form. Q. No, in the deposition that you are here Page 103 Page 105 1 A. I served as a consultant on a project for today, In Re Ethicon Pelvic Repair System 2 several years ago involving Kugel mesh and at that 2 Products Liability Litigation. 3 point I received a mesh sample, but I don't recall 3 MR. JACKSON: Objection, form. actually evaluate -- or testing it. 4 A. I was asked to opine on the use of 5 5 BY MR. HUTCHINSON: polypropylene in the TVT and the Gynemesh product 6 Q. Do you know what the chemical composition 6 lines for urinary incontinence and the pelvic 7 7 is of the Kugel mesh? products. 8 8 A. Yes, it was a polyester. BY MR. HUTCHINSON: 9 9 Q. It wasn't Prolene, correct? Q. Doctor, do you know the names of the 10 A. No. 10 products that you are designated to give testimony about for the plaintiffs? 11 Q. Doctor, you will agree that Prolene has a 11 12 chemical composition difference compared to 12 A. As I said, the TVT products, there's like four or five of those and then the prolapse polypropylene? 13 13 14 A. Absolutely, yes. Compared to what? products, there are several of those. 14 Q. Compared to polypropylene. Polypropylene 15 Q. Do you know the names of those products? 15 and Prolene are chemically different, aren't they, A. Boy, I'm terrible at names. I don't 16 16 17 sir? 17 remember the details of all the names, no. I was 18 MR. JACKSON: Objection, form. 18 shown the names and have seen the names and, yes, 19 A. Prolene meshes are polypropylene. 19 but I just don't recall all the names. 20 BY MR. HUTCHINSON: 20 Q. Do the opinions that you are giving today 21 relate to all of these products? 21 Q. Doctor, as a materials scientist, would you agree that Prolene has a different chemical 22 A. If they contain polypropylene, yes. 22 23 composition compared to pure polypropylene? 23 Q. Doctor, have you ever seen a TVT -- strike

27 (Pages 102 to 105)

24

MR. JACKSON: Objection, form.

24 that.

Page 106 Page 108 those particular products? I am going to represent to you that you 1 1 2 are designated in cases involving Prolene Soft mesh, 2 A. Again, I've seen that information. I just 3 Gynemesh PS, TVT, Prolift, TVT-O, Prolift+M, TVT 3 don't recall it. Exact, TVT Secur, Prosima and TVT Abbrevo? 4 Q. Do you know how many newtons of force are 5 A. I have seen all those names, yes. 5 placed on the mesh in vivo? 6 Q. Thank you. Doctor, have you ever held any 6 A. I do not. 7 7 of those devices in your hand? Q. Doctor, what do you know about the MR. JACKSON: Objection, form. 8 manufacturing process Ethicon uses to make Prolene? 8 9 A. Yes. 9 MR. JACKSON: Objection, form. A. I know that the resin is manufactured in 10 BY MR. HUTCHINSON: 10 West Virginia and then it's converted to fiber in 11 Q. When? 11 A. Back in December when I received the Georgia, and then woven into mesh and sent over to 12 12 13 Europe where it's cut and then it's shipped back to samples for lab testing. 13 Q. Did you receive one sample of each 14 the US for sale. 14 15 15 product? Q. Doctor, is the mesh woven or knitted? 16 16 A. No, I received, I think, four of the A. Oh, boy, I'm not sure of the semantics of Gynemesh products and six of the TVT products. 17 the difference between those to be able to answer. 17 Q. So fair to say you have never held Prosima Q. Doctor, do you know if Prolift+M, the mesh 18 18 or Prolift or Prolift+M in your hands? in Prolift+M is made of a hundred percent Prolene? 19 19 20 MR. JACKSON: Objection, form. 20 A. I remember, when I looked through the data 21 A. That's correct. 21 in the data sheets, I remember that some of the BY MR. HUTCHINSON: 22 22 products have polypropylene plus another 23 Q. Doctor, do you know what the indications biodegradable kind of material, either are for those products? polycaprolactone or glycolate biodegradable Page 107 Page 109 1 A. Indications? material. So it is a hybrid system. 2 Q. Yes. 2 Q. Doctor, my question is: Do you know what 3 A. What do you mean by indications? 3 type of biodegradable material Prolift+M has in its 4 Q. What the product is indicated for from a 4 mesh? 5 5 medical standpoint. MR. JACKSON: Objection, form. A. In general, yes. 6 6 A. I have seen it, I just don't recall. 7 Q. Doctor, do you know how long those 7 BY MR. HUTCHINSON: 8 products have been on the market? 8 Q. Doctor, did you make any efforts to find 9 9 A. The years vary but it started back in the out what type of biodegradable material is in 10 1990s and then there's recent introductions as 10 Prolift+M? recent as, I think 2010 or '11. A. Other than reading the sheets that 11 11 12 Q. Can you tell us the date that each of 12 describe them, no. those products were introduced to the market? Q. Do you consider yourself an expert in the 13 13 14 MR. JACKSON: Objection, form. 14 manufacturing process of pelvic mesh? 15 A. Again, I have seen the dates, I just don't 15 MR. JACKSON: Objection, form. 16 A. Just the manufacture as far as it goes to 16 recall. 17 BY MR. HUTCHINSON: 17 making the fibers. Once the fibers are made, I'm 18 Q. Do you know the physical dimensions of the 18 not an expert from that point on. mesh of each of those products? 19 BY MR. HUTCHINSON: 19 MR. JACKSON: Objection, form. 20 20 Q. Doctor, have you ever invented any type of 21 A. Again, I have seen pictures and photo-21 polypropylene product that's turned into a fiber? graphs of them, but I don't recall exact dimensions. 22 A. Invented a polypropylene product, I have 22 worked on polypropylene additive formulations. I 23 23 BY MR. HUTCHINSON: Q. Do you know the weight of the mesh of led a group at Dow for several years in the 1990s 24

28 (Pages 106 to 109)

	Page 110		Page 112
1	where we experimented with different Dow products	1	testing of Prolene, have you?
2	including polypropylene and the additives and	2	A. I sure reviewed the Ethicon documents on
3	stabilizers that need to be added to those to make	3	the Young's modulus of Prolene. I was shocked by
4	various types of products including fibers.	4	what I saw.
5	Q. Doctor, have you personally ever performed	5	Q. You have never done any testing of that,
6	any testing to determine if Prolene degrades in	6	have you?
7	vivo?	7	A. I have done modulus testing.
8	A. I have not done any in vivo testing	8	Q. On Prolene?
9	myself, no.	9	A. Not on Prolene, no.
10	Q. And you haven't done any loss of	10	Q. You have had the resources available to do
11	mechanical property testing in vivo, have you?	11	all of this testing of Prolene, haven't you?
12	A. I just reviewed the Ethicon documents	12	A. I've had it, but I had all those documents
13	which showed the loss of strength properties from in	13	which gave me the data that I needed to opine on
14	vivo implanted Prolene sutures.	14	that issue.
15	Q. But you have never done any testing, have	15	Q. You will agree with me that degradation
16	you?	16	affects the physical properties of the polymer?
17	MR. JACKSON: Objection, form.	17	A. Absolutely, yes.
18	A. Just reviewed work of others, yes.	18	Q. And it will affect the physical properties
19	BY MR. HUTCHINSON:	19	of the mesh and/or suture, correct?
20	Q. In fact, you have never tested the	20	A. That's correct.
21	durability of Prolene?	21	Q. You will agree that evaluation of the
22	A. In vivo?	22	physical properties of mesh is an important part in
23	Q. Yes.	23	your analysis on degradation, correct?
24	A. Not directly, no.	24	A. Absolutely, yes.
	Page 111		Page 113
1	Q. Have you ever tested the durability of	1	Q. As well as oxidation?
2	Prolene in any form or fashion?	2	MR. JACKSON: Objection, form.
3	MR. JACKSON: Objection, form.	3	A. Yes.
4	A. Well, yes, the OIT testing.	4	BY MR. HUTCHINSON:
5	BY MR. HUTCHINSON:	5	Q. Doctor, have you ever done any type of
6	Q. What about tensile strength, have you ever	6	testing or analysis on an explanted Prolene mesh?
7	tested tensile strength of Prolene, whether it be in	7	A. Just reviewed the literature and the
8	vivo or outside the body?	8	documents.
9	A. I just reviewed the Ethicon documents	9	Q. But you have never done any actual testing
10	which do that kind of testing.	10	of an actual explanted Prolene mesh, have you?
11	Q. You have never done tensile strength	11	A. Not myself, no.
12	testing, have you?	12	Q. Have you ever seen a Prolene explanted
13	A. I have done tensile strength testing.	13	mesh?
14	Q. Of Prolene?	14	A. Yes.
15	A. Not of Prolene, no.	15	Q. Where?
16	Q. You have never done elongation testing of	16	A. In the literature.
17 18	Prolene, have you?  A. Just reviewed those documents.	17   18	Q. Have you ever seen an actual Prolene
Τ0	Q. You have never done any toughness testing	19	explanted mesh? A. No.
10	TO TOU HAVE DEVELOONE ANY TOUVINESS TESTING !	⊥ ⊥ ブ	
19		20	O Have you over soon an actual Drolanc
20	of Prolene, have you?	20	Q. Have you ever seen an actual Prolene
20 21	of Prolene, have you?  MR. JACKSON: Objection, form.	21	explant that has become degraded?
20 21 22	of Prolene, have you?  MR. JACKSON: Objection, form.  A. No, just reviewed the documents.	21 22	explant that has become degraded?  A. Yes.
20 21	of Prolene, have you?  MR. JACKSON: Objection, form.	21	explant that has become degraded?

29 (Pages 110 to 113)

Page 114 Page 116 1 Q. Outside the literature, have you ever seen piece of explanted mesh because of various obvious 2 personally a Prolene explant that has become 2 reasons. 3 3 brittled? Q. Biohazardous --4 4 A. Biohazardous, yes, until I was assured A. No. 5 Q. Or degraded? 5 that there was no issue. б A. No. 6 Q. Doctor, fair to say you have never 7 7 Q. Or oxidized? inspected the explanted mesh from any of these 23 women, correct? 8 A. No. 8 9 Q. Or lost physical properties? 9 A. That is correct. 10 MR. JACKSON: Objection, form. 10 MR. JACKSON: We have been going about another hour. Can we take a break 11 A. Just in pictures in the literature. 11 12 BY MR. HUTCHINSON: 12 13 Q. In fact, you have never done any testing 13 MR. HUTCHINSON: Yes. or analysis on the degradation of Prolene before 14 14 BY MR. HUTCHINSON: your involvement in this case; is that correct? 15 15 Q. Do you know the date that these women had implanted or explanted mesh in them? 16 MR. JACKSON: Objection, asked and 16 17 17 answered. Q. Do you have any idea how long these women 18 A. Before involvement in the case, no. 18 19 had their mesh in their bodies before it was 19 BY MR. HUTCHINSON: 20 explanted? 20 Q. Am I correct? 21 A. That's correct. 21 A. No. 22 Q. Thank you. Doctor, you were designated Q. Do you know why from a medical or clinical 22 23 in -- let's look at Exhibit 1 for me, please, it is standpoint, why any of these 23 plaintiffs had their the notice of deposition. 24 mesh removed? Page 115 Page 117 1 1 A. Yes. MR. JACKSON: Objection, form. 2 Q. You were designated as an expert in 23 2 A. I can only make assumptions. 3 case-specific cases starting with Harriet Beach, 3 BY MR. HUTCHINSON: Sharon Boggs and going on down all the way to 4 Q. You don't have any hard facts on why the Virginia White. Do you see that? 5 5 mesh --A. Yes. 6 6 A. No. 7 7 Q. Do you know what type of product these 23 Q. Excuse me, no hard facts regarding why the 8 women received? 8 mesh was removed, correct? 9 9 MR. JACKSON: Objection, form. A. Correct. 10 10 Q. Doctor, can you make any prediction about A. No. BY MR. HUTCHINSON: when the mesh from any of these 23 different 11 11 Q. Have you ever reviewed the medical records plaintiffs would have oxidized in vivo? 12 12 for these 23 plaintiffs? 13 MR. JACKSON: Objection, form. 13 14 A. No, I have not. 14 A. Based upon the results of Ethicon's 15 Q. By the way, Doctor, have you ever 15 testing, yes. attempted to clean an explanted piece of mesh? 16 16 MR. JACKSON: Chad, let's take a 17 A. No. 17 break now. 18 Q. Why do you laugh? 18 MR. HUTCHINSON: Actually, just two A. Because I was sent a sample of explanted 19 19 more questions and we'll take a break. mesh and asked to analyze it and it made me very 20 20 MR. JACKSON: I will give you two 21 21 nervous. questions. 22 22 Q. Who sent it to you? BY MR. HUTCHINSON: A. This was the Kugel mesh case and I got to 23 Q. Doctor, can you tell us a specific date 24 the point of where I just didn't want to handle a when Harriet Beach's mesh oxidized?

30 (Pages 114 to 117)

Page 118 Page 120 1 1 MR. JACKSON: Objection, form. A. That's correct. 2 2 Q. Doctor, can you state to a reasonable A. No. 3 MR. HUTCHINSON: Thank you. We'll 3 degree of scientific certainty whether or not any of 4 4 these 23 plaintiffs have had their mesh removed take a quick break. 5 THE VIDEOGRAPHER: We are off the 5 specifically because of degradation? 6 video record. The time is 11:08 a.m. A. All I can say is that the meshes removed 7 7 from these women had undergone oxidation. I can say 8 8 that unequivocally. THE VIDEOGRAPHER: We are back on 9 the video record with Tape Number 3. The 9 Q. Doctor, did the mesh from any of these women fail? 10 10 time is 11:18 a.m. 11 BY MR. HUTCHINSON: 11 MR. JACKSON: Objection, form. 12 A. Depends on how you define failure. 12 Q. Doctor, back on the record. Anything 13 about the testimony you have given you would like to BY MR. HUTCHINSON: 13 14 Q. Did the mesh from any of these women stop 14 change? 15 providing tissue support? 15 A. No. 16 Q. Going back to Exhibit 1 and the list of 16 A. I do not know that. 17 the 23 different plaintiffs, can you tell us the Q. Did the mesh from any of these women lose 17 date on which any of these 23 different plaintiffs molecular weight? 18 18 19 19 had their mesh oxidized? A. Yes. 20 MR. JACKSON: Objection, form. 20 Q. Have you ever done any molecular weight 21 A. I could probably tell you if I had the 21 analyses on the explants from these women? 22 literature when the meshes were removed. A. No. 22 23 BY MR. HUTCHINSON: 23 Q. How can you tell us that these meshes lost 24 24 molecular weight without having examined the Q. Right, but I am asking when they were Page 119 Page 121 1 oxidized. 1 explant? 2 A. There's so many variables in the human 2 A. Because I understand the chemistry of 3 body, it's impossible to know when a mesh, at what 3 polypropylene, and the fact that it interacts with point it oxidizes to the point of degradation to be oxidizing species and degrades, and as part of the 5 5 an issue. oxidation process, molecular weight is lowered. And 6 6 Q. Doctor, can you identify by name one the fact that they were implanted for a period of 7 time, I'm a hundred percent confident that if I had 7 person who has had their mesh surgery removed 8 8 because of degradation? a sensitive way to measure molecular weight, or I 9 9 MR. JACKSON: Objection, form. should say applied a sensitive technique for 10 A. My best is all of them had them, they were 10 measuring molecular weight of all of these explanted degraded by oxidation. Every mesh that was removed 11 meshes, I can detect a loss of molecular weight. I 11 from these women, I'm very confident would show 12 12 have full confidence of that. evidence of degradation by oxidation. It is because 13 13 Q. A loss of molecular weight means 14 of my knowledge of polypropylene oxidation. 14 degradation has occurred, correct? 15 BY MR. HUTCHINSON: 15 A. That's correct. 16 Q. You have never talked to the doctors? 16 Q. Let's take, for example, Harriet Beach, 17 A. I have not. 17 the first named plaintiff. Do you have any evidence 18 Q. You have never looked at the medical 18 to confirm that Harriet Beach, her explant, lost 19 records? 19 molecular weight? 20 A. That's correct. 20 MR. JACKSON: Objection, asked and 21 21 Q. You have never talked to any of these answered. 22 22 plaintiffs? A. Do I have data? 23 A. That's correct. 23 BY MR. HUTCHINSON: Q. Or any of these family members? 24 24 Q. Yes, sir.

31 (Pages 118 to 121)

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- A. Other than my knowledge of polypropylene 1 2 oxidation chemistry, no.
  - Q. Doctor, do you have data on any of the 23 plaintiffs that would show their mesh lost molecular weight?
- 6 A. I have not actually done the measurements 7 to collect the data, no.
  - Q. In fact, Doctor, you have not done anything according to the scientific method to prove whether or not any of these plaintiffs' mesh degraded in vivo, have you?

MR. JACKSON: Objection, form.

- 13 A. I have done a ton of research using the scientific method to study the degradation chemistry 14 of polypropylene. 15
- BY MR. HUTCHINSON: 16

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- 17 Q. But have you proven that using the scientific method for any of these 23 plaintiffs, 18 yes or no? 19
- 20 A. Not those specific samples, no.
- 21 Q. Doctor, are you aware of any peer-reviewed
- literature that shows there is a clinical effect of 22 23 degradation in vivo?
- 24 A. I've read a ton of literature put out in

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- the last ten years on explanted meshes that show degradation.
- 3 Q. Doctor, are you aware of any clinical data 4 that shows degradation is clinically significant?

MR. JACKSON: Objection, form.

- 6 A. Clinically, I can't equate to that, 7
- clinically significant.
- 8 BY MR. HUTCHINSON:
- 9 Q. Doctor, are you aware of any clinical data 10 that shows degradation causes clinical harm?
- A. Again, since I'm not a medical doctor, I 11 12 can't equate the clinical.
- 13 Q. Are you aware of any data that shows degradation causes harm in women? 14
- A. Any data? 15
- Q. As a scientist. 16
- 17 A. Other than reading the scientific
- 18 literature that I've talked about on explants.
- 19 Q. Doctor, have you concluded that Prolene is 20 toxic?
- 21 MR. JACKSON: Objection, form.
- 22 A. I know from reading the MSDS sheets on the
- different additives in Prolene, I know that the
  - colorant, the copper phthalocyanine pigment is

cytotoxic, so that tells me that any dye that exudes

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2 from the surface in the neighboring tissue would be 3 toxic to it.

- 4 Q. Are you offering opinions today to a 5 reasonable degree of scientific certainty that 6
  - Prolene is toxic in the human body? MR. JACKSON: Objection, form.
    - A. No, just that pigment is cytotoxic.

9 That's all I can say.

BY MR. HUTCHINSON: 10

- 11 Q. Doctor, as a material scientist, are you 12 aware of any material that's completely inert?
  - A. Completely inert, about the closest to completely inert is diamond.
- 15 Q. Are you aware of any medical device on the 16 market that's completely inert?
- 17 A. Again, probably the closest would be titanium, but even that is not, completely is a 18 19 pretty, 100.00 percent is completely and there's no 20 such thing.
- 21 Q. Doctor, are you aware of any mesh, medical device on the market that is inert in the human 22 23 body?
- 24 A. All I can tell you is from reading the

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literature, it appears that PDVF is the closest to

2 being inert but even that's not inert. 3

Q. Thank you. Doctor, when we talked about degradation, you will agree that there must be loss of molecular weight for degradation to occur?

MR. JACKSON: Objection, misstates the witness' testimony.

8 A. No.

9 BY MR. HUTCHINSON:

- 10 Q. What happens to a polymer when it loses molecular weight, does it degrade? 11
- 12 A. Yes.
- Q. There must be loss of molecular weight for 13 degradation to have occurred, correct? 14
- 15 A. No.
- Q. Why not? 16
- 17 A. There's intermediate species like, for 18 example, before molecular weight loss occurs, there
- is generally oxidation. There's a hydroperoxide 19
- 20 chemical functionality on the polymer and that
- 21 precedes molecular weight loss.
- 22 Q. But for oxidation to have occurred, there
- 23 must be loss of molecular weight, correct?
- 24 A. No.

32 (Pages 122 to 125)

Page 126 Page 128 1 1 Q. Why not? MR. JACKSON: Objection, form. A. The additives oxidize so they are 2 2 A. No. As I mentioned earlier, you can have 3 constantly dynamic, changing in their structure. As 3 oxidation without chain scission. I mentioned earlier, the DLTDP changes to a sulfone, 4 BY MR. HUTCHINSON: 5 ultimately to a sulfoxide. That's an oxidized 5 Q. If oxidation occurs, you always have 6 species, so it is changing --6 reduced physical properties of the polymer? 7 7 Q. I'm not asking about --MR. JACKSON: Objection, form. 8 8 MR. WALLACE: Chad, you have to let A. In the early stages, it's probably 9 him finish. This has been going on for a 9 non-detectable. 10 while. Just let him finish. We have BY MR. HUTCHINSON: 10 11 been good all day. 11 Q. If oxidation occurs, you will have BY MR. HUTCHINSON: 12 12 embrittlement? 13 Q. Let's talk about oxidation. 13 A. Ultimately. Q. If oxidation occurs, you will have loss of 14 A. Okay. 14 15 Q. For oxidation to occur, there must be a 15 tensile strength? chain scission in the cleavage of the polymer chain, 16 A. Ultimately. 16 17 17 Q. If oxidation occurs, you will have loss of correct? 18 A. No, just to explain, you can have 18 elongation? oxidation going on of the additives of the polymer A. That's dependent. If body fluids, lipids, 19 19 chain without degradation that precedes molecular 20 oils, fats are absorbed into the polymer, it 20 weight loss. 21 actually increases elongation. 21 22 Q. If a polymer oxidizes, will there be loss 2.2 Q. You will have loss of toughness if 23 of molecular weight? 23 oxidation occurs, correct? MR. JACKSON: Objection, asked and 24 MR. JACKSON: Objection, form. 24 Page 127 Page 129 1 answered. 1 A. Depends on how you define toughness, but 2 A. There can be, but there doesn't generally, yes. 3 necessarily have to be. 3 BY MR. HUTCHINSON: 4 BY MR. HUTCHINSON: 4 O. Let's define it as the area under the Q. If oxidation occurs, will there be strong 5 5 curve on a stress-strain diagram. With that 6 definition, you will have a loss of toughness, 6 carbonyl bands on the FTIR? 7 7 A. Again, that's a later stage. The correct? 8 8 hydroperoxide group that forms first is not a A. Give me a minute to think about that. 9 9 carbonyl. You don't see an FTIR carbonyl band. Yes. 10 If it changes to another species, then it 10 Q. Doctor, would you ever expect to see an generates a carbonyl band. But the first stage of 11 increase in physical properties in a polymer that is 11 oxidation is generated to a hydroperoxide. That's 12 12 oxidized? still oxidation, but it hasn't formed a carbonyl 13 13 A. Which physical property? 14 band yet. 14 Q. Tensile strength. 15 Q. At what point does a loss of molecular 15 A. Yes. weight occur in oxidation? 16 Q. Young's modulus? 16 17 A. Can I explain? Tensile strength, as a 17 A. At the point that the hydroperoxide group 18 changes to a carbonyl, it is accompanied by chain 18 material becomes more brittle, generally increases. scission and you lose molecular weight. Young's modulus, if there's no chemicals absorbed 19 19 into the material to alter its plastic nature, 20 Q. So when you have chain scission, you lose 20 molecular weight? 21 Young's modulus will generally increase as the 21 22 22 material embrittles. A. That's correct. 23 Q. What about toughness? Q. For oxidation to occur, you must always 24 have chain scission of the polymer chain, correct? 24 A. Toughness generally decreases even though

33 (Pages 126 to 129)

Page 130 Page 132 sitting here today what the safer alternative for the tensile strength -- of course, you are getting into some issues here which require a lot of Prolene would be? 2 3 3 materials science explanations. But in general, as MR. JACKSON: Objection, asked and 4 materials embrittle, the Young's modulus and the answered. 5 5 tensile strength actually increase but the area A. Well, I know from my experience as a 6 under the stress-strain curve decreases. polymer scientist, I have worked with PVDF. It is 7 7 used in water filtration membranes, and the reason Q. Doctor, are you aware of any product on 8 is because it's like a rock when it comes to 8 the market --9 MR. HUTCHINSON: We are going to 9 oxidative stability. 10 10 They actually clean these membranes by have to take a quick break, and this 11 soaking them in concentrated bleach for several days 11 obviously does not count as my time. We are going to have to take a quick break 12 to burn off the organics. And yet even though it 12 13 because of the noise outside. tolerates that for a while, eventually even those 14 THE VIDEOGRAPHER: We are off the 14 membranes eventually oxidize and degrade and have to 15 be replaced. 15 video record. The time is 11:33 a.m. 16 (Recess.) 16 Q. And there are risks associated with PVDF, correct? 17 THE VIDEOGRAPHER: We are back on 17 the video record. The time is 11:33 a.m. 18 MR. JACKSON: Objection, form. 18 19 19 BY MR. HUTCHINSON: A. Risks? 20 20 BY MR. HUTCHINSON: Q. Doctor, are you aware of any medical product on the market that will never oxidize? 21 Q. Yes, medical risks associated with PVDF, 21 A. No. 22 2.2 correct? 23 Q. Doctor, can oxidation of pelvic Prolene 23 MS. FITZPATRICK: You can't just put mesh -- strike that. 24 an expert up here and ask anything that Page 131 Page 133 1 Can oxidation of Prolene pelvic mesh ever 1 you want. So if it is tied to his 2 be completely eliminated in vivo? report, fine; but other than that, you 3 MR. JACKSON: Objection, form. 3 are going to have to move on. BY MR. HUTCHINSON: 4 4 A. No. 5 5 BY MR. HUTCHINSON: Q. Can you answer that question? Q. Doctor, you talked about a PVDF earlier; 6 A. Repeat the question. 6 7 7 Q. Yes. Are you aware of any medical risks is that correct? using PVDF as a medical device? 8 A. Yes. 8 9 9 MS. FITZPATRICK: I am going to Q. Is that what you believe would have been a 10 safer alternative than polypropylene? 10 instruct the witness not to answer unless MR. JACKSON: Objection, form. 11 you can show for some reason it is in his 11 12 12 A. I have no basis to make that kind of a report. 13 BY MR. HUTCHINSON: 13 conclusion other than my understanding of the relative oxidative stability of PVDF versus 14 Q. Doctor, have you ever tested the 14 polypropylene. durability of PVDF as a mesh material inside the 15 human body? BY MR. HUTCHINSON: 16 16 17 17 Q. Doctor, what in your opinion is a safer MS. FITZPATRICK: Same objection, 18 alternative for Prolene in pelvic floor repair? 18 same instruction. MR. JACKSON: Objection, form. 19 19 BY MR. HUTCHINSON: A. I'm not here to opine on that. I was just 20 20 Q. Doctor, would you ever guarantee, would asked to talk about polypropylene meshes. So I'd 21 you ever provide a lifetime guarantee for PVDF mesh? 21 rather not get into that kind of a discussion. 22 MR. JACKSON: Same instruction, same 22 23 23 BY MR. HUTCHINSON: objection. Q. I understand, but do you have an opinion 24 BY MR. HUTCHINSON: 24

34 (Pages 130 to 133)

	Page 134		Page 136
1	Q. Doctor, are you aware of any mesh made, on	1	BY MR. HUTCHINSON:
2	the market made out of PVDF?	2	Q. Doctor, turn with me to the last page of
3	MS. FITZPATRICK: Objection, same	3	the seven-year dog study marked as Exhibit 9 to your
4	instruction.	4	deposition. Are you there with me?
5	MR. HUTCHINSON: Instructing the	5	A. Yes.
6	witness not to answer?	6	Q. Have you ever seen this particular page
7	MS. FITZPATRICK: I am. You want to	7	before?
8	show us why you think that's in his	8	A. Absolutely, yes.
9	report, I'd be happy to reconsider and	9	Q. Did you look at the breaking strength,
10	look at it; but otherwise, just having an	10	elongation and Young's modulus for Prolene?
11	expert witness sitting in the chair and	11	A. I certainly did.
12	having him opine on things that are well	12	Q. Doctor, what did you notice about it?
13	beyond his report is not appropriate.	13	A. I noticed the Young's modulus was
14	BY MR. HUTCHINSON:	14	ridiculously low after seven years.
15	Q. Doctor, could you tell us what would be a	15	Q. Doctor, do you have any reason to believe
16	reasonably safe alternative to Prolene mesh?	16	that the negative 70 shown for Prolene is incorrect?
17	MR. JACKSON: Objection to form.	17	A. No.
18	A. Not without investigating and researching	18	Q. Doctor, do you have any reason to believe
19	that question.	19	that the 111 percent increase of elongation for
20	BY MR. HUTCHINSON:	20	Prolene is incorrect?
21	Q. Doctor, have you done any efforts to	21 22	A. No.
22 23	research or investigate that question?		Q. What about for the breaking strength of
24	A. A safer alternative, no. That's beyond	23 24	negative 5 percent, any reason to believe that's incorrect?
24	the scope of what I was asked to do.	24	
	Page 135	_	Page 137
1	Q. Doctor, what's your opinion about what	1	A. No.
2	Q. Doctor, what's your opinion about what Ethicon should have done differently to prevent	2	<ul><li>A. No.</li><li>Q. Doctor, have you ever done any type of</li></ul>
2	Q. Doctor, what's your opinion about what Ethicon should have done differently to prevent oxidation of Prolene?	2	A. No. Q. Doctor, have you ever done any type of analysis using this data from the dog study?
2 3 4	Q. Doctor, what's your opinion about what Ethicon should have done differently to prevent oxidation of Prolene?  MR. JACKSON: Objection, form.	2 3 4	<ul><li>A. No.</li><li>Q. Doctor, have you ever done any type of analysis using this data from the dog study?</li><li>A. Yes.</li></ul>
2 3 4 5	Q. Doctor, what's your opinion about what Ethicon should have done differently to prevent oxidation of Prolene?  MR. JACKSON: Objection, form.  A. There is no technology that I'm aware of	2 3 4 5	<ul><li>A. No.</li><li>Q. Doctor, have you ever done any type of analysis using this data from the dog study?</li><li>A. Yes.</li><li>Q. For Prolene?</li></ul>
2 3 4 5 6	Q. Doctor, what's your opinion about what Ethicon should have done differently to prevent oxidation of Prolene?  MR. JACKSON: Objection, form.  A. There is no technology that I'm aware of where you can prevent the oxidation of	2 3 4 5 6	<ul> <li>A. No.</li> <li>Q. Doctor, have you ever done any type of analysis using this data from the dog study?</li> <li>A. Yes.</li> <li>Q. For Prolene?</li> <li>A. Yes.</li> </ul>
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Page 138 Page 140 Q. Are you currently doing an analysis using Doctor? 1 1 2 this type of data? 2 A. No. 3 3 MR. JACKSON: Objection, asked and Q. Why not? 4 A. I focused on the other issues and didn't 4 answered. 5 5 BY MR. HUTCHINSON: include that. 6 Q. Currently? 6 Q. You will agree that the physical 7 7 A. No, I have analyzed this data. properties that are shown of the Prolene sutures in the dog study improved after seven years? 8 8 Q. But I thought you said you have done some 9 tests that are not included in the report. 9 A. Absolutely not, no. Loss of modulus is 10 MR. JACKSON: Objection, misstates 10 huge. That means the material has no integrity. If 11 witness' testimony. 11 it had been any stress at all on it, it would have 12 A. I have in the past, yes. I have done 12 stretched right out. 13 quite a few tests. 13 (Priddy Deposition Exhibit 10 was Q. What type of tests of the breaking 14 marked for identification.) 14 15 strength, elongation and Young's modulus of Prolene 15 BY MR. HUTCHINSON: have you done? 16 Q. Doctor, I want to hand you what we will 16 17 A. I haven't done tests, I have evaluated 17 mark as Exhibit 10 to your deposition. This shows toughness as the area under the curve, correct? 18 this data. 18 19 Q. Doctor, does this data that we are looking 19 MR. JACKSON: Objection, form. at now support your opinions that Prolene degrades? 20 20 Q. The stress-strain chart. 21 A. Absolutely. 21 (Witness reviewing document.) 22 Q. How so? 2.2 A. Yes. 23 A. The 70 percent loss of modulus, that's 23 Q. Doctor, these are the same plots or the 24 same data that we saw from the Burkley dog study 24 huge. Page 139 Page 141 1 Q. That means Young's modulus is stiffness, that we just looked at, correct? 2 correct? 2 A. I don't know. 3 3 Q. Why don't you compare the data on this A. Yes, it does. 4 Q. And Young's modulus -- strike that. 4 chart to the data on the last page of the seven-year 5 5 This means that the Prolene lost dog study. 6 A. These stress-strain curves look strange. 6 70 percent of its stiffness after seven years? 7 7 I would have to actually see the plot-outs from the A. That's correct. 8 Q. And why do you believe that supports your 8 instruments that ran this stress-strain curve 9 9 because you normally don't get a 0 point and a point 10 A. Going from a 700,000 modulus down to 10 up here that's a perfect straight line. It's always 200,000, I took that data and plotted it out. So I 11 11 an arc. 12 took the tensile, the Young's modulus which is 12 So it looks like somebody took a ruler and tensile modulus times 0 after one year, after two 13 13 hand-drew this out. It doesn't look right. 14 years, after seven years, plotted it. It's a 14 Q. Doctor, looking at the red at time 0, straight line, with 98 percent statistical linear elongation was 1.68 pounds according to the Burkley 15 15 straight line. When I extrapolate that until the dog study, correct? 16 16 17 time it hits 0 modulus, it predicts ten years, three 17 A. That's percent. 18 more years, that material would have been water. 18 Q. I'm sorry, percent. A. Right. 19 A stiffness of 200,000 modulus is, the 19 Prolene, if it had been held up, it would have 20 Q. Elongation times 0 is 37 percent; is that 21 sagged. There's no stiffness whatsoever, no right? integrity. It would have been like jello. That's 22 22 A. Again, this data doesn't look -- something 23 huge. 23 is wrong with the data. 24 Q. What's wrong with the data? 24 Q. Is that information in your expert report,

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Page 142 Page 144 A. I mean, elongation is not to pounds, it's 1 Q. Thank you. And Doctor, you will agree 1 that the area under the curve is a measure of 2 in percent and above it you have got 37 percent. I 2 3 mean, that looks correct, year 0, 37 percent. It 3 toughness, correct? 4 must be the breaking strength is 1.68 pounds. Okay, MR. JACKSON: Objection, form. 5 now I understand. 5 A. As I say, there's something wrong here. 6 Q. Now that you have looked at it, you will 6 What I'm seeing here with modulus does not equate to 7 7 agree that the data is correct on Exhibit 10? what I'm seeing here (indicating). There's MR. JACKSON: Objection, form. 8 something wrong. 8 9 A. Well, again, I can't make that leap. 9 BY MR. HUTCHINSON: BY MR. HUTCHINSON: Q. But can you tell us sitting here today 10 10 11 Q. Why not? 11 what's wrong? 12 A. As I say, the curves look weird. It looks 12 A. What I'm saying, modulus is listed here. 13 like somebody hand-drew with a ruler. The plot-outs 13 It's not reflected here (indicating). There's a from a tensile, an Instron, don't look like this. 14 problem. Something is wrong. 14 They are not "blocky" like this. They are nice, 15 Q. I understand. My question is: Sitting 16 smooth curves. Somebody has taken the data and 16 here today, can you tell us what is wrong? 17 hand-drawn this. 17 MR. JACKSON: Objection, asked and 18 18 Q. Doctor, you will agree that the numbers answered. for the breaking strength and elongation at year 19 19 A. I can't. I have to figure it out. I zero are the same as the Burkley dog study, correct? 20 cannot figure it out based on what I'm seeing. It 20 21 just doesn't equate, is what I'm saying. There's A. Hang on. 21 22 (Witness reviewing document.) 22 something, there's a problem. 23 A. Yes. 23 BY MR. HUTCHINSON: 24 24 Q. Have you made any efforts to determine MR. JACKSON: Chad, are you asking Page 143 Page 145 1 him to compare data in Exhibit 9 and what that problem is? 2 2 Exhibit 10? Is that what you are asking MR. JACKSON: Objection, form. 3 3 A. Until I just noticed the problem now, no. him? 4 BY MR. HUTCHINSON: 4 I should say yes, I have been trying to figure it 5 Q. I'm sorry, did you say yes? 5 out the last five minutes and I can't. It doesn't 6 6 A. Yes, I did. add up. 7 7 THE WITNESS: That was what I assume I've done literally thousands of 8 he was asking. 8 stress-strain tensile studies on different samples 9 9 Q. And Doctor, at year 7 -and this doesn't look right. Something's wrong. 10 MS. FITZPATRICK: Chad, can he 10 Can I interject something at this point? 11 It's not an answer to a question, it is kind of 11 answer the question so it is clear on the 12 record? 12 answering your question. 13 Modulus is slope. There's a huge 13 MR. JACKSON: Chad, I just asked, 14 were you asking Dr. Priddy to compare 14 difference between a slope of a Young's modulus of 15 Exhibit 9 and Exhibit 10? Is that what 15 200,000 and 700,000. 16 you just asked him to do? 16 These two curves have almost the same 17 MR. HUTCHINSON: Yes, I did. I 17 slope, and this does not reflect a difference of 200 18 thought the witness answered your 18 to 700,000. As I say, something is clearly wrong. question. My bad. 19 19 Q. Doctor, can you quantify the rate at which 20 BY MR. HUTCHINSON: 20 you believe antioxidants are depleted from Prolene? 21 MR. JACKSON: Objection, asked and 21 Q. Doctor, at year 7, is the data on Exhibit 10 the same as the data in the Burkley dog 22 22 answered. 23 study? 23 A. In which? 24 BY MR. HUTCHINSON: 24 A. Yes, it is.

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Page 146 Page 148 1 oxidized mesh in their body? Q. In vivo. 1 MR. JACKSON: Objection, form. 2 A. It's too many variables. It's impossible. 2 3 It's going to be dependent upon the amount of 3 A. Yes. tension, the amount of inflammation, the amount of 4 BY MR. HUTCHINSON: 4 5 oxidizing species, but the foreign body response, 5 Q. Doctor, is it your opinion that every 6 there's too many variables, plus you've got the 6 medical doctor who uses Prolene in the body is 7 7 variability in the mesh and its oxidative stability. committing malpractice? 8 So you just can't predict that. MR. JACKSON: Objection, form. 8 9 Q. Have you made any efforts to test that 9 A. I'm not going to go there. I'm a plastics 10 scientist. I'm not into that kind of stuff. whatsoever? 10 11 MR. JACKSON: Objection, form. 11 BY MR. HUTCHINSON: 12 A. Test the rate at which it would, just my 12 Q. Do you believe that every medical doctor OIT work. 13 who is implanting Prolene in the body is doing 13 something wrong? 14 BY MR. HUTCHINSON: 14 A. They are probably relying upon the 15 Q. Doctor, you agree that sutures, Prolene 15 sutures have been on the market for a long time? 16 literature provided to them by Ethicon that said 16 17 A. Yes. 17 it's safe and effective and they are just relying on that, I presume. 18 Q. Doctor, are you criticizing Ethicon's 18 Prolene sutures in any way? 19 19 Q. My question to you, though, is: Do you A. I was not asked to opine on that. believe that doctors who implant Prolene in the body 20 20 21 Q. Do you have any criticisms of Ethicon's 21 are doing something wrong? 22 MR. JACKSON: Objection, asked and 22 sutures? 23 MR. JACKSON: Objection, asked and 23 answered. 24 24 MS. FITZPATRICK: Beyond the scope answered. Page 147 Page 149 1 A. Again, I wasn't -- I haven't even thought 1 of his opinions. 2 about that. 2 A. How can I opine on that? That's beyond 3 BY MR. HUTCHINSON: 3 my, what I'm asked to do here. 4 Q. Doctor, have you thought about whether or 4 BY MR. HUTCHINSON: 5 not sutures made out of Prolene oxidize in the body? 5 Q. Can you answer that question? 6 A. I'd rather not. That's an opinion outside 6 A. If they are made out of polypropylene, 7 7 they oxidize in the body. That's a given. my area of expertise. 8 Q. Doctor, do you know if Ethicon's sutures 8 Q. Can you answer that question? 9 9 were approved by FDA as safe and effective? A. Can I answer it? I can give you an 10 A. I remember reading they were approved by 10 opinion for what it's worth. 11 11 FDA. MR. JACKSON: All asked and 12 Q. Doctor, is it your opinion that every 12 answered. BY MR. HUTCHINSON: person who has a Prolene suture implanted in their 13 13 body has an oxidized product in their body? 14 Q. What's your opinion? 14 15 A. Of course, yes, I am. 15 A. Are they doing something wrong? 16 Q. What about hernia mesh? Do you know how 16 Q. Yes, by using Prolene in the body as an 17 long hernia mesh has been on the market? 17 implant? 18 A. I don't know precisely. I know a long 18 MR. JACKSON: Objection, this is 19 19 outside the scope of the report. time. A. I don't think the doctor is doing anything 20 Q. Is it your opinion that Prolene hernia 20 mesh oxidizes in the body? wrong. He is just relying upon the information he 21 21 22 has, his best judgment. I think Ethicon is doing A. Yes. 22 23 Q. And it is your opinion that every person 23 something wrong but the doctor isn't doing anything who has ever received a hernia mesh implant has 24 wrong.

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Page 150 Page 152 MR. JACKSON: Objection, form. 1 MR. HUTCHINSON: Move to strike as 1 A. Signs? 2 2 non-responsive. 3 MR. WALLACE: Move to strike because 3 BY MR. HUTCHINSON: 4 4 you don't like his answer. Q. Do you see any signs --5 MS. FITZPATRICK: How is that 5 A. I would say it's an indication that they 6 non-responsive? 6 are reacting, yes, they are oxidizing. 7 7 Q. Just so the record is clear, what are you MR. WALLACE: All right, we are 8 8 referring to specifically? close to done. 9 MR. HUTCHINSON: How much longer do 9 A. The slight, gradual elevation here is 10 we have? probably due to the antioxidants oxidizing, 10 11 THE VIDEOGRAPHER: 20 minutes. 11 probably. 12 Q. That's at the curve, the DSC curve on the 12 MR. WALLACE: We may have some 13 questions so you might want to reserve a 13 top of Page 15, correct? couple minutes if you need it. 14 A. Yes. 14 15 BY MR. HUTCHINSON: 15 Q. Doctor, do you have any opinion regarding 16 Q. Doctor, let's go back to your expert 16 the specific concentration level of Santonox R and report on Page 15. Are you there with me? 17 DLTDP that should have been in Prolene? 17 18 A. Just based upon the data sheet I was 18 A. I am there, yes. provided that gave me a target loading level. 19 19 Q. Doctor, are these charts, say, for 20 Q. Right, but do you have an opinion about 20 example, the chart on Page 15. 21 A. Yes. 21 Ethicon's Prolene, about what the specific Q. What do you call these charts? 22 concentration level of Santonox R and DLTDP should 22 23 A. OIT curves. 23 have been? 24 24 MR. JACKSON: Objection, asked and Q. Curves. Doctor, would you expect the Page 151 Page 153 additives in Prolene to have an exothermic peak? 1 answered. 2 A. They will, but it's going to be barely 2 A. Should have been for the Prolene 3 3 detectable. application? 4 Q. Why would it be barely detectable? 4 BY MR. HUTCHINSON: 5 5 A. Excuse me, I got to sneeze. Q. Yes, sir. 6 6 Because they are there in such low A. My opinion is, it's not appropriate to use 7 7 concentration relative to the polymer that like, polypropylene, stabilized polypropylene with those 8 when, for example, the DLTDP is oxidized from the 8 additives in for that application. It's not 9 9 sulfur or the sulfide to the sulfone, ultimately to appropriate. 10 the sulfoxide, that's an exothermic reaction. But 10 Q. Can you tell us what additives if not 11 Santonox R and DLTDP, can you tell us what 11 the DLTDP is such low concentration, the instrument 12 is not sensitive enough to detect it. So you get a 12 antioxidants should have been used? 13 13 slight elevation in the baseline. A. Let me restate. I do not know of any 14 This curve is not -- if I was to draw a 14 antioxidant stabilizer formulation that's totally perfectly horizontal line, you would see this non-extractable by oils and fats in the body that 15 15 deviating up slightly. That's probably the Santonox you could put into polypropylene and guarantee that 16 16 17 R and the DLTDP slowly oxidizing, but you really 17 it's going to last for decades in the body because 18 don't see a significant response until they are 18 they are going to be extracted from the surface. It 19 depleted and the polypropylene takes over. 19 is just a given basic polymer science. 20 20 Q. Is that the signs of the additives that Q. Can you tell the ladies and gentlemen of you are seeing in your thermogram data? 21 the jury what additives, specific additives should 21 22 A. Excuse me? 22 have been used if not Santonox R and DLTDP? 23 23 Q. Is that the signs of the additives that MR. JACKSON: Objection, asked and you are seeing in your thermogram data? 24 answered.

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	Page 154		Page 156
1	A. Again, I do not believe it's possible to	1	And I made the analogy of napalm. The
2	stabilize polypropylene with any additives to make	2	judge said that wasn't acceptable.
3	an implantable mesh product that would last for	3	Q. Doctor, on this DSC curve at the top of
4	decades, just not going to happen.	4	Page 15.
5	MR. HUTCHINSON: I want to take just	5	A. Yes.
6	a quick break, go off the record.	6	Q. Is oxidation showing as a smooth
7	THE VIDEOGRAPHER: We are off the	7	transition from time 0?
8	video record. The time is 12:01 p.m.	8	MR. JACKSON: Objection, form.
9	(Recess.)	9	A. On this one?
10	THE VIDEOGRAPHER: We are back on	10	BY MR. HUTCHINSON:
11	the video record. The time is 12:04 p.m.	11	Q. Yes.
12	BY MR. HUTCHINSON:	12	A. Yes, that's typical, that's a smooth,
13	Q. Doctor, have you understood all my	13	normal transition, yes.
14	questions so far?	14	Q. But you would say that that is showing a
15	A. Yes.	15	smooth transition?
16	Q. Is there anything about the testimony that	16	A. Yes.
17	you have given you would like to change?	17	Q. Did you do any resampling?
18	MR. JACKSON: Objection, form.	18	A. Any what?
19	A. Not at this point.	19	Q. Resampling?
20	BY MR. HUTCHINSON:	20	MR. JACKSON: Objection, form.
21	Q. Has a court ever determined that you could	21	A. Yes, I had duplicates on a couple samples
22	not give an expert opinion?	22	run, yes.
23	A. That I could not?	23	BY MR. HUTCHINSON:
24	Q. Yes.	24	Q. Did you do any retesting?
	Page 155		
			Page 157
1	A. Yes.	1	A. Retesting, I had the same mesh run a
2	<ul><li>A. Yes.</li><li>Q. How many times?</li></ul>	2	A. Retesting, I had the same mesh run a couple times, yes.
2	<ul><li>A. Yes.</li><li>Q. How many times?</li><li>A. Twice that I'm aware of.</li></ul>	2	<ul><li>A. Retesting, I had the same mesh run a couple times, yes.</li><li>Q. But did you do any retesting of that</li></ul>
2 3 4	<ul><li>A. Yes.</li><li>Q. How many times?</li><li>A. Twice that I'm aware of.</li><li>Q. In what circumstances?</li></ul>	2 3 4	<ul><li>A. Retesting, I had the same mesh run a couple times, yes.</li><li>Q. But did you do any retesting of that particular DSC curve?</li></ul>
2 3 4 5	<ul><li>A. Yes.</li><li>Q. How many times?</li><li>A. Twice that I'm aware of.</li><li>Q. In what circumstances?</li><li>A. One was a patent infringement matter</li></ul>	2 3 4 5	<ul><li>A. Retesting, I had the same mesh run a couple times, yes.</li><li>Q. But did you do any retesting of that particular DSC curve?</li><li>A. I don't understand what you are asking me.</li></ul>
2 3 4 5 6	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and</li> </ul>	2 3 4 5 6	<ul> <li>A. Retesting, I had the same mesh run a couple times, yes.</li> <li>Q. But did you do any retesting of that particular DSC curve?</li> <li>A. I don't understand what you are asking me.</li> <li>Q. Did you do the test again to see if you</li> </ul>
2 3 4 5 6 7	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't</li> </ul>	2 3 4 5 6 7	<ul> <li>A. Retesting, I had the same mesh run a couple times, yes.</li> <li>Q. But did you do any retesting of that particular DSC curve?</li> <li>A. I don't understand what you are asking me.</li> <li>Q. Did you do the test again to see if you could generate the same curve?</li> </ul>
2 3 4 5 6 7 8	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe</li> </ul>	2 3 4 5 6 7 8	<ul> <li>A. Retesting, I had the same mesh run a couple times, yes.</li> <li>Q. But did you do any retesting of that particular DSC curve?</li> <li>A. I don't understand what you are asking me.</li> <li>Q. Did you do the test again to see if you could generate the same curve?</li> <li>A. Oh, yes.</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.</li> </ul>	2 3 4 5 6 7 8 9	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have
2 3 4 5 6 7 8 9	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my</li> </ul>	2 3 4 5 6 7 8 9	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.
2 3 4 5 6 7 8 9 10	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.  And the other time was a portion of my testimony was deemed as being not admissible.</li> </ul>	2 3 4 5 6 7 8 9 10	A. Retesting, I had the same mesh run a couple times, yes. Q. But did you do any retesting of that particular DSC curve? A. I don't understand what you are asking me. Q. Did you do the test again to see if you could generate the same curve? A. Oh, yes. MR. HUTCHINSON: I don't have anything further. MR. JACKSON: We'll just take about
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.  And the other time was a portion of my testimony was deemed as being not admissible.</li> <li>Q. In what particular instance?</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.  And the other time was a portion of my testimony was deemed as being not admissible.</li> <li>Q. In what particular instance?</li> <li>A. See, that was Jarden versus Hearthmark, et</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. How many times? A. Twice that I'm aware of. Q. In what circumstances? A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my testimony was deemed as being not admissible. Q. In what particular instance? A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that?	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. How many times? A. Twice that I'm aware of. Q. In what circumstances? A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my testimony was deemed as being not admissible. Q. In what particular instance? A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that? Q. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me. Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m. (Recess.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.  And the other time was a portion of my testimony was deemed as being not admissible.</li> <li>Q. In what particular instance?</li> <li>A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that?</li> <li>Q. Yes.</li> <li>A. Okay, it involved a company that decided</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me. Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.  (Recess.)  THE VIDEOGRAPHER: We are back on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A. Yes.</li> <li>Q. How many times?</li> <li>A. Twice that I'm aware of.</li> <li>Q. In what circumstances?</li> <li>A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible.  And the other time was a portion of my testimony was deemed as being not admissible.</li> <li>Q. In what particular instance?</li> <li>A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that?</li> <li>Q. Yes.</li> <li>A. Okay, it involved a company that decided to use hand sanitizer, this gel that we squirt from</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.  (Recess.)  THE VIDEOGRAPHER: We are back on the video record. The time is 12:20 p.m.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. How many times? A. Twice that I'm aware of. Q. In what circumstances? A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my testimony was deemed as being not admissible. Q. In what particular instance? A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that? Q. Yes. A. Okay, it involved a company that decided to use hand sanitizer, this gel that we squirt from a bottle on our hands to sanitize them, to market	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.  (Recess.)  THE VIDEOGRAPHER: We are back on the video record. The time is 12:20 p.m.  MR. JACKSON: I just want to note on
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. How many times? A. Twice that I'm aware of. Q. In what circumstances? A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my testimony was deemed as being not admissible. Q. In what particular instance? A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that? Q. Yes. A. Okay, it involved a company that decided to use hand sanitizer, this gel that we squirt from a bottle on our hands to sanitize them, to market that as a fire starter. So they used a bottle made out of PVC to dispense that and a child was using it to ignite a fire. And the flame came up the stream of gel as it was squirting out of the bottle,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.  (Recess.)  THE VIDEOGRAPHER: We are back on the video record. The time is 12:20 p.m.  MR. JACKSON: I just want to note on the record that Dr. Priddy said that the materials that were available to him in this case were on the flash drive. They are not on that drive. We can provide
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. How many times? A. Twice that I'm aware of. Q. In what circumstances? A. One was a patent infringement matter involving, against Nike for a shoe sole design and because I had never designed shoe soles and didn't really have experience working with shoes or shoe soles, they deemed my testimony was not admissible. And the other time was a portion of my testimony was deemed as being not admissible. Q. In what particular instance? A. See, that was Jarden versus Hearthmark, et al. Do you want to know the details of that? Q. Yes. A. Okay, it involved a company that decided to use hand sanitizer, this gel that we squirt from a bottle on our hands to sanitize them, to market that as a fire starter. So they used a bottle made out of PVC to dispense that and a child was using it to ignite a fire. And the flame came up the stream	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Retesting, I had the same mesh run a couple times, yes.  Q. But did you do any retesting of that particular DSC curve?  A. I don't understand what you are asking me.  Q. Did you do the test again to see if you could generate the same curve?  A. Oh, yes.  MR. HUTCHINSON: I don't have anything further.  MR. JACKSON: We'll just take about five minutes.  THE VIDEOGRAPHER: We are off the video record. The time is 12:07 p.m.  (Recess.)  THE VIDEOGRAPHER: We are back on the video record. The time is 12:20 p.m.  MR. JACKSON: I just want to note on the record that Dr. Priddy said that the materials that were available to him in this case were on the flash drive. They

40 (Pages 154 to 157)

	Page 158		Page 160
1	MR. JACKSON: The literature and the	1	Q. You interact with people like Steve
2	Ethicon documents are not on there, just	2	Johnson all the time in your professional career?
3	his work papers.	3	A. I do. I use laboratories all over the US
4	MR. HUTCHINSON: This may be, where	4	and he is one of the, he's the lab I use for OIT.
5	is the literature and documents?	5	Depending on the core area of expertise of the lab,
6	MR. WALLACE: Since they were your		I will use different labs for different types of
7	documents, we typically don't include		testing. I always use Steve for OIT and GC-MS
8	those, but if you want them, we'll give	8	analysis.
9	them to you. Typically, you guys don't	9	Q. So you rely on Steve's work regularly?
10	like to be bothered with your own	10	MR. HUTCHINSON: Form.
11	documents. That was the issue.	11	A. I do.
12	MR. HUTCHINSON: That was the reason	12	MR. HUTCHINSON: Counsel, if you
13	they weren't included on the flash drive?	13	will give me a just a second to lodge my
14	MR. WALLACE: Yes. I think we have	14	objection. Form to the last question.
15	done that before.	15	BY MR. JACKSON:
16	EXAMINATION	16	Q. Dr. Priddy, when Steve Johnson runs a test
17	BY MR. JACKSON:	17	for you, it is your job to interpret that data?
18	Q. Dr. Priddy, do you remember being asked	18	A. That's correct.
19	some questions earlier about your work with AMS?	19	MR. HUTCHINSON: Form.
20	A. Yes.	20	BY MR. JACKSON:
21	Q. You were a fact witness in AMS?	21	Q. And you do that regularly in your
22	A. I was, yes.	22	profession?
23	Q. You were not an expert?	23	A. I do.
24	MR. HUTCHINSON: Objection, leading.	24	Q. Do you recall Mr. Hutchinson asking you
	Page 159		Page 161
1	A. Correct.	1	some questions earlier today about the names of
2	BY MR. JACKSON:	2	various Ethicon products?
3	Q. You did not give an expert report?	3	A. Yes.
4	A. Right.	4	Q. Did the names of those products have
5	Q. Mr. Hutchinson asked you earlier if you	5	anything to do with your opinions in this case?
6	were an expert in various fields. Do you remember	6	A. No.
7	that?	7	Q. Dr. Priddy, Mr. Hutchinson asked you some
8	A. Yes.	8	questions earlier today about Dr. Jordi. Do you
9	Q. What did you understand that word expert	9	remember that?
	to mean to you?	10	A. Yes.
11	A. That that was my primary job function of,	11	Q. Can you determine anything about Dr.
12	specific area of expertise he was mentioning.	12	Jordi's report without seeing his data?
13	Q. But just because you said you are not an	13	A. No.
14	expert in a particular area doesn't mean you don't	14	Q. Can you evaluate the hypothetical that Mr.
15	have knowledge and expertise in that area?	15	Hutchinson gave you earlier today without seeing Dr.
16	MR. HUTCHINSON: Object, form.	16	Jordi's data?
17	A. That is correct.	17	MR. HUTCHINSON: Object to form.
18	BY MR. JACKSON:	18	A. No.
19	Q. Do you remember being asked some questions	19	BY MR. JACKSON:
20	earlier about Steve Johnson?	20	Q. Did anything you were asked by Mr.
21	A. Yes.	21	Hutchinson today change any of your opinions in this
22	Q. Steve Johnson is someone who does this	22	case?
23 24	testing regularly; is that right?	23	A. No.
')/	A. Yes.	24	Q. Did anything that Mr. Hutchinson asked you

41 (Pages 158 to 161)

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Page 162

today change how you view your methodology in this 1 2 case?

3 A. No.

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- Q. Why didn't you review any plaintiff medical records in this case?
- A. It wasn't relative to my opinions, didn't affect my opinions.
- Q. Dr. Priddy, you were asked some questions earlier about life expectancy of certain products. Do you remember that? 10
  - A. Yes.
- 12 Q. Can you explain for the jury why you did your testing in this case? 13
- A. Yes, I was looking specifically at the 15 product variability. Normally, when products are 16 manufactured, they are manufactured to a specification to minimize variability and I just 17 wanted to see if these products, these mesh products 18 were highly variable in their oxidation resistance 20 or if they were all very similar in their oxidation
- 21 resistance. 22 Q. Do you remember being asked some questions 23 earlier about how blood in the body interacts with these products?

needs to be done so they don't have failures anymore.

Those are the three main -- it all has to do with plastics.

Q. In your profession, you provide consulting services to medical device companies?

Page 164

Page 165

- A. I do.
- 8 Q. You have been hired by medical device 9 companies to work on implantable medical devices?
  - A. Correct.
- Q. You have provided expert testimony on 11 behalf of medical companies? 12
- A. Expert testimony -- most of my work has been consulting. I'm trying to think. Of course, 14 the AMS work I did, my recollection is they were trying to get FDA approval on a mesh product and they asked me to opine, to evaluate and opine on the usefulness of accelerated laboratory testing of their packaging of their device.

So it wasn't part of a litigation, it was part of a petition to the FDA. And I was -- as far as being hired by a medical device manufacturer, to my knowledge, it's all been consulting work except 24 for that.

Page 163

A. Yes.

Q. Is it fair that you need to understand how chemicals in the body interact with these mesh devices to offer your opinions in this case?

MR. HUTCHINSON: Object to form.

A. Well, just the fact that knowing that I do, that bodies contain chemicals which are fats and oils and have the capability to plasticize and extract and affect the properties of plastics that are implanted in the body, the nature of these chemicals, the types of chemicals they are, I 11 understand that and how those types of chemicals interact with materials. That's all part of my core

area of expertise. 15 BY MR. JACKSON:

- Q. Dr. Priddy, as the founder and CEO of 16 17 Plastic Expert Group, what do you do professionally?
- 18 A. Consult, serve as an expert witness.
- 19 Companies are constantly sending me plastic parts
- that have failed and ask me to figure out the root 20 cause of the failure and make recommendations to 21
- them once I determine the cause why they are 22
- failing, how to fix it, how to remediate, how to
  - redesign the part, change the material, do what

Q. Is the work you have done for medical

2 device companies any different than the work you 3 have done in this case?

- A. I have run OIT testing for medical device companies to, for example -- can I give an example?

A. Spectranetics was having a problem with degradation of one of their tubing materials that was failing, medical tubing. So they had me do a failure analysis and I determined that the tubing 10 had degraded. 11

And so I ran OIT testing to determine if it was an oxidation issue, for example. So to answer your question, it's a little bit different, but I'm using the same kinds of tests, yes.

- Q. You have run OIT tests for medical device companies?
- 18 A. Yes.
  - Q. You did an OIT test in this case?
- 20
- 21 Q. Is there anything special or unique about
- 22 the antioxidants used in the Prolene mesh? 23
  - A. No, they are just basic workhorse antioxidants.

42 (Pages 162 to 165)

Page 166 Page 168 Q. You have published peer-reviewed 1 A. No. 1 2 literature discussing antioxidants in plastics? 2 Q. So why are you here to offer an opinion on 3 MR. HUTCHINSON: Object to form. 3 a medical device? 4 4 A. Because the medical device is plastic and A. Yes, I have. 5 BY MR. JACKSON: 5 I'm a plastics expert. 6 Q. Have you done work with antioxidants as 6 Q. Dr. Priddy, you were asked a lot of 7 part of your day job in your profession? 7 questions earlier today about both DLTDP and 8 8 Santonox R. Do you remember that? A. Yes. 9 Q. Your opinions in this case are based on 9 A. Yes. your professional expertise as well as the documents 10 10 Q. Does the presence of either of those antioxidants in the Prolene mesh alter your opinions 11 you have reviewed in the peer-reviewed literature? 11 12 MR. HUTCHINSON: Object to form. 12 in this case? A. That's correct. 13 A. No. 13 14 14 BY MR. JACKSON: MR. HUTCHINSON: Are you done? 15 Q. The plaintiffs in this case asked you to 15 MR. JACKSON: I have no more opine on the chemical stability of Prolene; is that 16 16 questions. 17 MR. HUTCHINSON: I got a couple of 17 right? 18 MR. HUTCHINSON: Form. 18 follow-up questions. **EXAMINATION** (Continued) 19 A. Yes. 19 20 BY MR. HUTCHINSON: 20 BY MR. JACKSON: 21 21 Q. If Ethicon had reached out to you 15 or Q. Doctor, you testified that you were 20 years ago and asked you to do the same thing, if deposed in the AMS litigation as a fact witness? 22 22 Did I understand that correctly? 23 they had asked you to offer the same -- strike that. 23 24 If Ethicon had reached out to you 15 or 24 A. Yes. Page 167 Page 169 20 years ago and asked you to offer the same 1 Q. What did you witness? 2 opinions for them, would you have done it? 2 A. I didn't write a report. I had done work 3 A. Yes. 3 as a consultant for AMS and so I was deposed, I 4 Q. Would you have run the same tests and guess, to just talk, as I recall, just talk about polypropylene oxidation and stability. 5 analysis that you have run in this case? 5 A. Most likely. 6 Q. Was it a patent type litigation or was it 6 7 7 a personal injury type of litigation? Q. Is the testing and analysis that you have 8 done in this case widely accepted in your industry? 8 A. I think it was a class action litigation 9 9 against AMS for their meshes, as I recall. Q. What was the substance of your testimony 10 Q. As someone who has worked for medical 10 device companies, is accelerated aging testing alone in the AMS litigation? 11 11 sufficient to determine the suitability of a MR. JACKSON: Objection, form. 12 12 BY MR. HUTCHINSON: 13 material? 13 14 A. No. 14 Q. Just in general. 15 Q. Why not? 15 A. It was generally similar to this, the A. Because it is only an approximation. It 16 oxidative stability of polypropylene. It was 16 just lets you know if there is a red flag there that focused pretty much on chemistry of oxidation of 17 17 18 needs to be followed up on or not. 18 polypropylene. Q. But you were not designated as an expert 19 Q. Why did you review Ethicon documents in 19 in that litigation; is that correct? 20 this case? 20 21 21 A. That's correct. A. I wanted to see the kind of testing that they performed and the data they generated on their 22 Q. Did you have a lawyer representing you? 22 Prolene mesh products. 23 A. Representing me, I had one that hired me. 23 Q. You are not a medical doctor? 24 Q. What did that lawyer hire you to do? 24

43 (Pages 166 to 169)

	Page 170		Page 1	72
1	MR. JACKSON: Objection, form.	1	ERRATASHEET	
2	A. Just deposed me just as a consultant on	2	Pursuant to Rule 30(e) of the Federal Rules	
3	the issues involving polypropylene oxidative	3	of Civil Procedure and/or the Official Code of	
4	chemistry.	3	Georgia Annotated 9-11-30(e), any changes in form or substance which you desire to make to your	
5	BY MR. HUTCHINSON:	4	deposition testimony shall be entered upon the	
		_	deposition with a statement of the reasons given for	
6	Q. What's the name of the lawyer that hired	5	making them.  To assist you in making any such	
7	you?	"	corrections, please use the form below. If	
8	A. Ed Wallace.	7	supplemental or additional pages are necessary,	
9	Q. What did Ed Wallace ask you to do?		please furnish same and attach them to this errata	
10	A. Just deposed me and asked me a bunch of	8	sheet.	
11	questions during the deposition.	9		
12	Q. Ed Wallace asked you	10	I, the undersigned, DUANE PRIDDY, do hereby	
13	A. I'm sorry, the AMS attorney asked me. Ed	1,,	certify that I have read the foregoing deposition	
14	Wallace asked me some questions too, I believe, but	111	and that to the best of my knowledge said deposition is true and accurate (with the exception of the	
15	yes.	12	following corrections listed below).	
16	Q. My question is specifically, sir: Were	13	Page NoLine Noshould read:	
17	you designated as an expert in the AMS litigation?	14	Reason for change: Page No Line No should read:	
18	MR. JACKSON: Objection, asked and	16	Reason for change:	
19	answered.	17	Reason for change:Page NoLine Noshould read:	
20	A. No, sir, I don't believe so.	18	Reason for change:Page NoLine Noshould read:	
21	BY MR. HUTCHINSON:	19	Page NoLine Noshould read:	
22		21	Reason for change:Page NoLine Noshould read:	
	Q. Did you provide anybody expert opinions in	22	Reason for change:	
23	any type of deposition?	23	Page NoLine Noshould read:	
24	MR. JACKSON: Objection, form.	24	Reason for change:	
	Page 171		Page 1	73
1	Page 171  A. That deposition I presented information,	1	Page NoLine Noshould read:	
1 2		2	Page NoLine Noshould read:	
	A. That deposition I presented information,	2	Page NoLine Noshould read: Reason for change: Page NoLine Noshould read:	
2	<ul><li>A. That deposition I presented information,</li><li>yes.</li><li>Q. As an expert?</li></ul>	2 3 4	Page NoLine Noshould read: Reason for change: Page NoLine Noshould read:	
2	A. That deposition I presented information, yes.	2 3 4 5	Page NoLine Noshould read:	
2 3 4	<ul> <li>A. That deposition I presented information,</li> <li>yes.</li> <li>Q. As an expert?</li> <li>MR. JACKSON: Objection, asked and</li> <li>answered.</li> </ul>	2 3 4	Page NoLine Noshould read:	
2 3 4 5	<ul> <li>A. That deposition I presented information,</li> <li>yes.</li> <li>Q. As an expert?</li> <li>MR. JACKSON: Objection, asked and answered.</li> <li>A. I assume I was considered a plastics</li> </ul>	2 3 4 5 6	Page NoLine Noshould read:	
2 3 4 5 6	<ul> <li>A. That deposition I presented information,</li> <li>yes.</li> <li>Q. As an expert?</li> <li>MR. JACKSON: Objection, asked and answered.</li> <li>A. I assume I was considered a plastics expert.</li> </ul>	2 3 4 5 6 7 8 9	Page NoLine Noshould read:	
2 3 4 5 6 7 8	A. That deposition I presented information, yes.  Q. As an expert? MR. JACKSON: Objection, asked and answered. A. I assume I was considered a plastics expert. Q. What were your opinions regarding	2 3 4 5 6 7 8 9	Page NoLine Noshould read:	
2 3 4 5 6 7 8 9	<ul> <li>A. That deposition I presented information, yes.</li> <li>Q. As an expert?  MR. JACKSON: Objection, asked and answered.</li> <li>A. I assume I was considered a plastics expert.</li> <li>Q. What were your opinions regarding degradation in the AMS litigation, sir?</li> </ul>	2 3 4 5 6 7 8 9 10	Page NoLine Noshould read:	
2 3 4 5 6 7 8 9	A. That deposition I presented information, yes.  Q. As an expert?  MR. JACKSON: Objection, asked and answered.  A. I assume I was considered a plastics expert.  Q. What were your opinions regarding degradation in the AMS litigation, sir?  A. You know, that was what, three years ago.	2 3 4 5 6 7 8 9 10 11	Page NoLine Noshould read:	
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1 CERTIFICATE	J : <b>-</b>	
GEORGIA:		
3 HENRY COUNTY:		
I hereby certify that the foregoing deposition was reported, as stated in the caption, and the questions and answers thereto were reduced to the written page under my direction; that the foregoing pages I through 168 represent a true and correct transcript of the evidence given. I further certify that I am not in any way financially interested in the result of said case.  Pursuant to Rules and Regulations of the Board of Court Reporting of the Judicial Council of Georgia, I make the following disclosure:  I am a Georgia Certified Court Reporter. I am here as an independent contractor for Golkow Global Litigation Services.  I was contacted by the offices of Golkow Global Litigation Services to provide court reporting services for this deposition. I will not be taking this deposition under any contract that is prohibited by O.C.G.A. 15-14-37 (a) or (b). Thave no written contract to provide reporting services with any party to the case, any counsel in the case, or any reporter or reporting agency from whom a referral might have been made to cover this deposition. I will charge my usual and customary rates to all parties in the case. This, the 9th day of March, 2016.		
23 MAXYNE BURSKY, CCR-2547		

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